

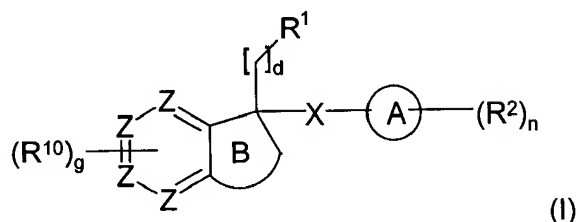
## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

### In the Claims:

What is claimed is:

1. (Currently Amended) A compound of formula (I)



or pharmaceutically acceptable derivatives thereof, wherein:

X is a C<sub>1-5</sub> alkylene chain having 0 heteroatoms, wherein said X is optionally substituted by one or more =O, =S, -S(O)<sub>t</sub>, alkyl, or halogen; ~~and wherein said C<sub>1-5</sub> alkylene chain may optionally have 0-3 heteroatoms selected from oxygen, phosphorus, sulfur, or nitrogen;~~

Ring A is ~~a saturated, partially saturated, or aromatic 3-7 monocyclic or an 8-10~~ 8-10 8-membered bicyclic ring having one ring nitrogen and ~~0-4 additional heteroatoms selected from oxygen, phosphorus, sulfur, or nitrogen;~~

Ring B is a ~~4-7~~ 5- membered saturated, partially saturated, or aromatic carbocyclic ring optionally containing one or two heteroatoms selected from oxygen, phosphorus, sulfur, ~~or~~ and nitrogen;

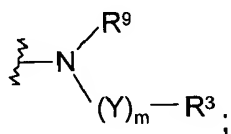
each Z may be is carbon; ~~or nitrogen, provided that at least one Z is carbon;~~

R<sup>1</sup> is ~~selected from the group consisting of~~

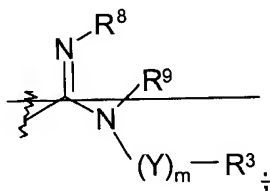
~~(a) a saturated, partially saturated, or aromatic 4-7 monocyclic or 8-10 membered bicyclic ring having one ring nitrogen and 0-4 additional heteroatoms~~

~~selected from oxygen, phosphorus, sulfur, or nitrogen, optionally attached through a C<sub>1-6</sub> alkylene chain, and optionally substituted by one or more R<sup>8</sup>;~~

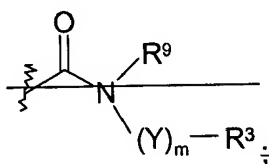
(b)



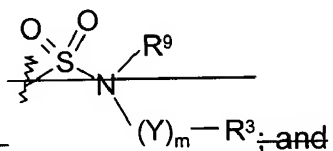
\_\_\_\_(c)



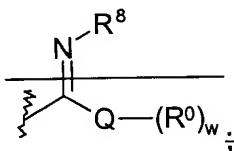
(d)



(e)



(f)



\_\_\_\_Q is carbon, oxygen, or S(O)<sub>i</sub>;

\_\_\_\_w is 1 or 2;

each R<sup>2</sup> is independently selected from the group consisting of -OR<sup>0</sup>, -C(O)-R<sup>0</sup>, -S(O)<sub>2</sub>-R<sup>0</sup>, -C(O)-N(R<sup>0</sup>)<sub>2</sub>, -S(O)<sub>2</sub>-N(R<sup>0</sup>)<sub>2</sub>, -(CH<sub>2</sub>)<sub>a</sub>-N(R<sup>0</sup>)(-V<sub>b</sub>-R<sup>+</sup>), -(CH<sub>2</sub>)<sub>a</sub>-(-V<sub>b</sub>-R<sup>+</sup>),

halogen, alkyl optionally substituted by one or more  $R^7$ , alkenyl optionally substituted by one or more  $R^7$ , alkynyl optionally substituted by one or more  $R^7$ , aryl optionally substituted by one or more  $R^6$ , heteroaryl optionally substituted by one or more  $R^6$ , cycloalkyl optionally substituted by one or more  $R^8$ , and heterocyclyl optionally substituted by one or more  $R^8$ ; and two adjacent  $R^2$ s on Ring A are optionally taken together to form a fused, saturated, partially saturated or aromatic 5-6 membered ring having 0-3 heteroatoms selected from oxygen, phosphorus, sulfur, or nitrogen; or two geminal  $R^2$ s are optionally taken together to form a spiro, saturated, partially saturated or aromatic 5-6 membered ring having 0-3 heteroatoms selected from oxygen, phosphorus, sulfur, or nitrogen, said fused or spiro ring being optionally substituted by one or more  $R^8$ ;

each a independently is 0-3;

each b independently is 0 or 1;

V is  $-C(O)-$ ,  $-C(O)O-$ ,  $-S(O)_2-$ , or  $-C(O)-N(R^0)-$ ;

$R^+$  is alkyl, cycloalkyl, aralkyl, aryl, heteroaryl, heteroaralkyl, or heterocyclyl, wherein said  $R^+$  is optionally substituted by one or more  $R^8$ ;

d is 1-3;

m is 0 or 1;

n is 0-5;

$R^3$  is H,  $-N(R^0)_2$ ,  $-N(R^0)C(O)R^0$ ,  $-CN$ , halogen,  $CF_3$ , alkyl optionally substituted by one or more groups selected from  $R^7$  or  $-S$ -aryl optionally substituted by  $-(CH_2)_{1-6}-N(R^0)SO_2(R^0)$ , alkenyl optionally substituted by one or more groups selected from  $R^7$  or  $-S$ -aryl optionally substituted by  $-(CH_2)_{1-6}-N(R^0)SO_2(R^0)$ , alkynyl optionally substituted by one or more groups selected from  $R^7$  or  $-S$ -aryl optionally substituted by  $-(CH_2)_{1-6}-N(R^0)SO_2(R^0)$ , cycloalkyl or carbocyclyl optionally substituted by one or more  $R^8$ , aryl optionally substituted by one or more  $R^6$ , heteroaryl optionally substituted by one or more  $R^8$ , or heterocyclyl optionally substituted by one or more  $R^6$ ;

Y is alkyl, alkenyl, alkynyl,  $-(CR^4R^5)_p-$ ,  $-C(O)-$ ,  $-C(O)C(O)-$ ,  $-C(S)-$ ,  $-O-(CH_2)_{0-4}-C(O)-$ ,  $-(CH_2)_{0-4}-C(O)-O-$ ,  $-N(R^0)-C(O)-$ ,  $-C(O)-N(R^0)-$ ,  $-N(R^0)-C(S)-$ ,  $-S(O)_t-$ ,  $-O-C(=N-CN)-$ ,  $-O-C(=N-R^0)-$ ,  $-C(=N-CN)-O-$ ,  $-C(=N-CN)-S-$ ,  $-C(=N-R^0)-O-$ ,

-S-C(=N-CN)-, -N(R<sup>0</sup>)-C(=N-CN)-, -C(=N-CN)-, -N(R<sup>0</sup>)-C[=N-C(O)-R<sup>0</sup>],  
-N(R<sup>0</sup>)-C[=N-S(O)<sub>t</sub>-R<sup>0</sup>], -N(R<sup>0</sup>)-C(=N-OR<sup>0</sup>)-, -N(R<sup>0</sup>)-C(=N-R<sup>0</sup>)-, or -C(=N-R<sup>0</sup>)-;

each R<sup>4</sup> is independently H, alkyl optionally substituted by R<sup>7</sup>, alkenyl optionally substituted by R<sup>7</sup>, or alkynyl optionally substituted by R<sup>7</sup>;

each R<sup>5</sup> is independently selected from H, -C(O)-OR<sup>6</sup>, -C(O)-N(R<sup>0</sup>)<sub>2</sub>, -S(O)<sub>2</sub>N(R<sup>0</sup>)<sub>2</sub>, -S(O)<sub>2</sub>R<sup>0</sup>, aryl optionally substituted by R<sup>6</sup>, or heteroaryl optionally substituted by R<sup>6</sup>;

p is 1-5;

t is 1 or 2;

each R<sup>6</sup> is independently selected from the group consisting of halogen, -CF<sub>3</sub>, -OCF<sub>3</sub>, -OR<sup>0</sup>, -(CH<sub>2</sub>)<sub>1-6</sub>-OR<sup>0</sup>, -SR<sup>0</sup>, -(CH<sub>2</sub>)<sub>1-6</sub>-SR<sup>0</sup>, -SCF<sub>3</sub>, -R<sup>0</sup>, methylenedioxy, ethylenedioxy, -NO<sub>2</sub>, -CN, -(CH<sub>2</sub>)<sub>1-6</sub>-CN, -N(R<sup>0</sup>)<sub>2</sub>, -(CH<sub>2</sub>)<sub>1-6</sub>-N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>C(O)R<sup>0</sup>, -NR<sup>0</sup>(CN), -NR<sup>0</sup>C(O)N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>C(S)N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>CO<sub>2</sub>R<sup>0</sup>, -NR<sup>0</sup>NR<sup>0</sup>C(O)R<sup>0</sup>, -NR<sup>0</sup>NR<sup>0</sup>C(O)N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>NR<sup>0</sup>CO<sub>2</sub>R<sup>0</sup>, -C(O)C(O)R<sup>0</sup>, -C(O)CH<sub>2</sub>C(O)R<sup>0</sup>, -(CH<sub>2</sub>)<sub>0-6</sub>CO<sub>2</sub>R<sup>0</sup>, -O-C(O)R<sup>0</sup>, -C(O)R<sup>0</sup>, -C(O)N(R<sup>0</sup>)N(R<sup>0</sup>)<sub>2</sub>, -C(O)N(R<sup>0</sup>)<sub>2</sub>, -C(O)N(R<sup>0</sup>)OH, -C(O)N(R<sup>0</sup>)SO<sub>2</sub>R<sup>0</sup>, -OC(O)N(R<sup>0</sup>)<sub>2</sub>, -S(O)<sub>t</sub>R<sup>0</sup>, -S(O)<sub>t</sub>-OR<sup>0</sup>, -S(O)<sub>t</sub>N(R<sup>0</sup>)C(O)R<sup>0</sup>, -S(O)<sub>t</sub>N(R<sup>0</sup>)OR<sup>0</sup>, -NR<sup>0</sup>SO<sub>2</sub>N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>SO<sub>2</sub>R<sup>0</sup>, -C(=S)N(R<sup>0</sup>)<sub>2</sub>, -C(=NH)-N(R<sup>0</sup>)<sub>2</sub>, -(CH<sub>2</sub>)<sub>1-6</sub>-C(O)R<sup>0</sup>, -C(=N-OR<sup>0</sup>)-N(R<sup>0</sup>)<sub>2</sub>, -O-(CH<sub>2</sub>)<sub>0-6</sub>-SO<sub>2</sub>N(R<sup>0</sup>)<sub>2</sub>, -(CH<sub>2</sub>)<sub>1-6</sub>NHC(O)R<sup>0</sup>, and -SO<sub>2</sub>N(R<sup>0</sup>)<sub>2</sub> wherein the two R<sup>0</sup>s on the same nitrogen are optionally taken together to form a 5-8 membered saturated, partially saturated, or aromatic ring having additional 0-4 heteroatoms selected from oxygen, phosphorus, nitrogen, or sulfur;

each R<sup>7</sup> is independently selected from the group consisting of halogen, -CF<sub>3</sub>, -R<sup>0</sup>, -OR<sup>0</sup>, -OCF<sub>3</sub>, -(CH<sub>2</sub>)<sub>1-6</sub>-OR<sup>0</sup>, -SR<sup>0</sup>, -SCF<sub>3</sub>, -(CH<sub>2</sub>)<sub>1-6</sub>-SR<sup>0</sup>, aryl optionally substituted by R<sup>6</sup>, methylenedioxy, ethylenedioxy, -NO<sub>2</sub>, -CN, -(CH<sub>2</sub>)<sub>1-6</sub>-CN, -N(R<sup>0</sup>)<sub>2</sub>, -(CH<sub>2</sub>)<sub>1-6</sub>-N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>C(O)R<sup>0</sup>, -NR<sup>0</sup>(CN), -NR<sup>0</sup>C(O)N(R<sup>0</sup>)<sub>2</sub>, -N(R<sup>0</sup>)C(S)N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>CO<sub>2</sub>R<sup>0</sup>, -NR<sup>0</sup>NR<sup>0</sup>C(O)R<sup>0</sup>, -NR<sup>0</sup>NR<sup>0</sup>C(O)N(R<sup>0</sup>)<sub>2</sub>, -NR<sup>0</sup>NR<sup>0</sup>CO<sub>2</sub>R<sup>0</sup>, -C(O)C(O)R<sup>0</sup>, -C(O)CH<sub>2</sub>C(O)R<sup>0</sup>, -(CH<sub>2</sub>)<sub>0-6</sub>-CO<sub>2</sub>R<sup>0</sup>, -C(O)R<sup>0</sup>, -C(O)N(R<sup>0</sup>)N(R<sup>0</sup>)<sub>2</sub>, -C(O)N(R<sup>0</sup>)<sub>2</sub>, -C(O)N(R<sup>0</sup>)OH, -OC(O)R<sup>0</sup>, -C(O)N(R<sup>0</sup>)SO<sub>2</sub>R<sup>0</sup>, -OC(O)N(R<sup>0</sup>)<sub>2</sub>, -S(O)<sub>t</sub>R<sup>0</sup>, -S(O)<sub>t</sub>-OR<sup>0</sup>, -S(O)<sub>t</sub>N(R<sup>0</sup>)C(O)R<sup>0</sup>, -S(O)<sub>t</sub>N(R<sup>0</sup>)OR<sup>0</sup>, -

$\text{NR}^0\text{SO}_2\text{N}(\text{R}^0)_2$ ,  $-\text{NR}^0\text{SO}_2\text{R}^0$ ,  $-\text{C}(=\text{S})\text{N}(\text{R}^0)_2$ ,  $-\text{C}(=\text{NH})-\text{N}(\text{R}^0)_2$ ,  $-(\text{CH}_2)_{1-6}-\text{C}(\text{O})\text{R}^0$ ,  $-\text{C}(=\text{N}-\text{OR}^0)-\text{N}(\text{R}^0)_2$ ,  $-\text{O}-(\text{CH}_2)_{0-6}-\text{SO}_2\text{N}(\text{R}^0)_2$ ,  $-(\text{CH}_2)_{1-6}-\text{NHC}(\text{O})\text{R}^0$ , and  $-\text{SO}_2\text{N}(\text{R}^0)_2$  wherein the two  $\text{R}^0$ 's on the same nitrogen are optionally taken together to form a 5-8 membered saturated, partially saturated, or aromatic ring having additional 0-4 heteroatoms selected from oxygen, phosphorus, nitrogen, or sulfur;

each  $\text{R}^8$  is independently selected from  $\text{R}^7$ ,  $=\text{O}$ ,  $=\text{S}$ ,  $=\text{N}(\text{R}^0)$ , or  $=\text{N}(\text{CN})$ ;

$\text{R}^9$  is hydrogen, alkyl optionally substituted by one or more  $\text{R}^7$ , alkenyl optionally substituted by one or more  $\text{R}^7$ , alkynyl optionally substituted by one or more  $\text{R}^7$ , cycloalkyl optionally substituted by one or more  $\text{R}^8$ , heterocyclyl optionally substituted by one or more  $\text{R}^8$ , heteroaryl optionally substituted by one or more  $\text{R}^6$ , or aryl optionally substituted by one or more  $\text{R}^6$ ;  $-(\text{Y})_m-\text{R}^3$  and  $\text{R}^9$  may combine with the nitrogen atom with which they are attached to form a saturated, partially saturated, or aromatic 5-7 membered monocyclic or 8-10 membered bicyclic ring that optionally contains 1 to 3 additional heteroatoms selected from oxygen, phosphorus, nitrogen, or sulfur, wherein said ring may be optionally substituted with one or more  $\text{R}^8$ ;

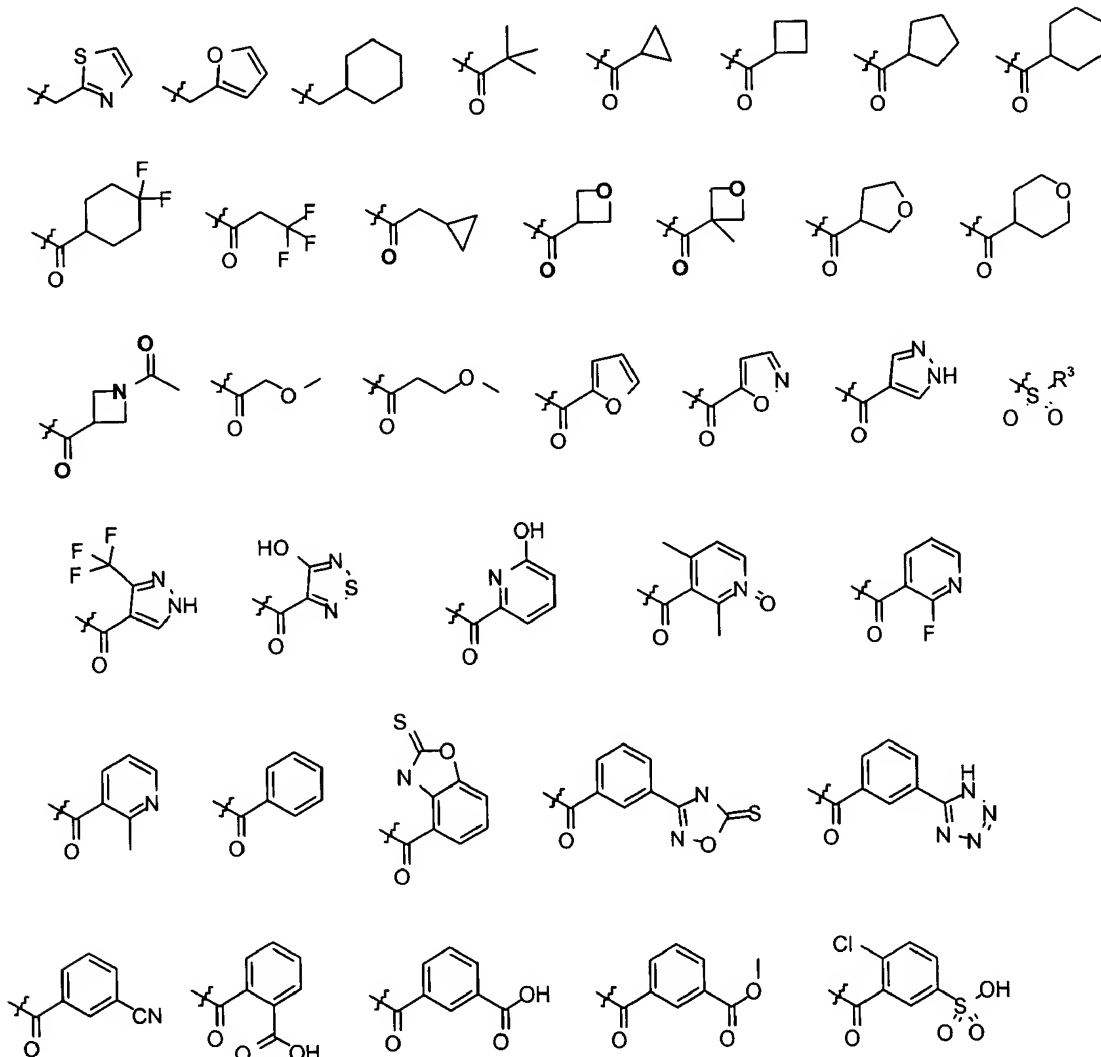
each  $\text{R}^{10}$  is  $\text{R}^7$  or two  $\text{R}^{10}$  optionally may be taken together to form a 3-7 member saturated, partially saturated, or aromatic carbocyclic ring, optionally containing one or more heteroatom selected from oxygen, phosphorus, nitrogen, or sulfur that is fused with the depicted ring;

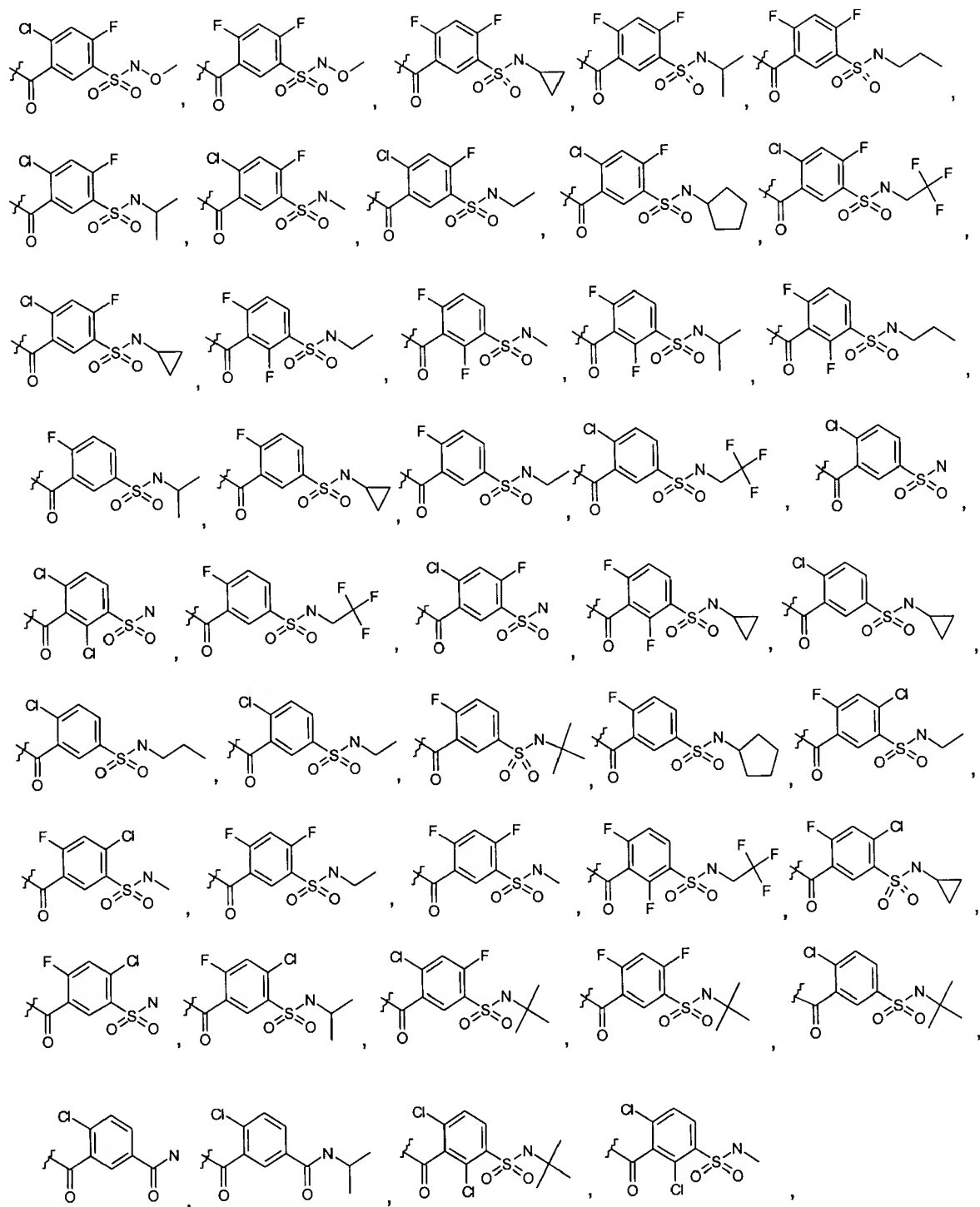
$g$  is 0 to 4;

each  $\text{R}^0$  is independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, cycloalkyl, carbocyclalkyl, aryl, heteroaryl, aralkyl, heteroaralkyl, heterocyclyl, and heterocyclalkyl, wherein each member of  $\text{R}^0$  except H is optionally substituted by one or more  $\text{R}^*$ ,  $\text{OR}^*$ ,  $\text{N}(\text{R}^*)_2$ ,  $=\text{O}$ ,  $=\text{S}$ , halogen,  $\text{CF}_3$ ,  $\text{NO}_2$ ,  $\text{CN}$ ,  $-\text{C}(\text{O})\text{R}^*$ ,  $-\text{CO}_2\text{R}^*$ ,  $-\text{C}(\text{O})\text{-aryl}$ ,  $-\text{C}(\text{O})\text{-heteroaryl}$ ,  $-\text{C}(\text{O})\text{-aralkyl}$ ,  $-\text{S}(\text{O})_t\text{-aryl}$ ,  $-\text{S}(\text{O})_t\text{-heteroaryl}$ ,  $-\text{NR}^*\text{SO}_2\text{R}^*$ ,  $-\text{NR}^*\text{C}(\text{O})\text{R}^*$ ,  $-\text{NR}^*\text{C}(\text{O})\text{N}(\text{R}^*)_2$ ,  $-\text{N}(\text{R}^*)\text{C}(\text{S})\text{N}(\text{R}^*)_2$ ,  $-\text{NR}^*\text{CO}_2\text{R}^*$ ,  $-\text{NR}^*\text{NR}^*\text{C}(\text{O})\text{R}^*$ ,  $-\text{NR}^*\text{NR}^*\text{C}(\text{O})\text{N}(\text{R}^*)_2$ ,  $-\text{NR}^*\text{NR}^*\text{CO}_2\text{R}^*$ ,  $-\text{C}(\text{O})\text{C}(\text{O})\text{R}^*$ ,  $-\text{C}(\text{O})\text{CH}_2\text{C}(\text{O})\text{R}^*$ ,  $-\text{C}(\text{O})\text{N}(\text{R}^*)\text{N}(\text{R}^*)_2$ ,  $-\text{C}(\text{O})\text{N}(\text{R}^*)_2$ ,  $-\text{C}(\text{O})\text{NR}^*\text{SO}_2\text{R}^*$ ,  $-\text{OC}(\text{O})\text{N}(\text{R}^*)_2$ ,  $-\text{S}(\text{O})_t\text{R}^*$ ,  $-\text{NR}^*\text{SO}_2\text{N}(\text{R}^*)_2$ , and  $-\text{SO}_2\text{N}(\text{R}^*)_2$

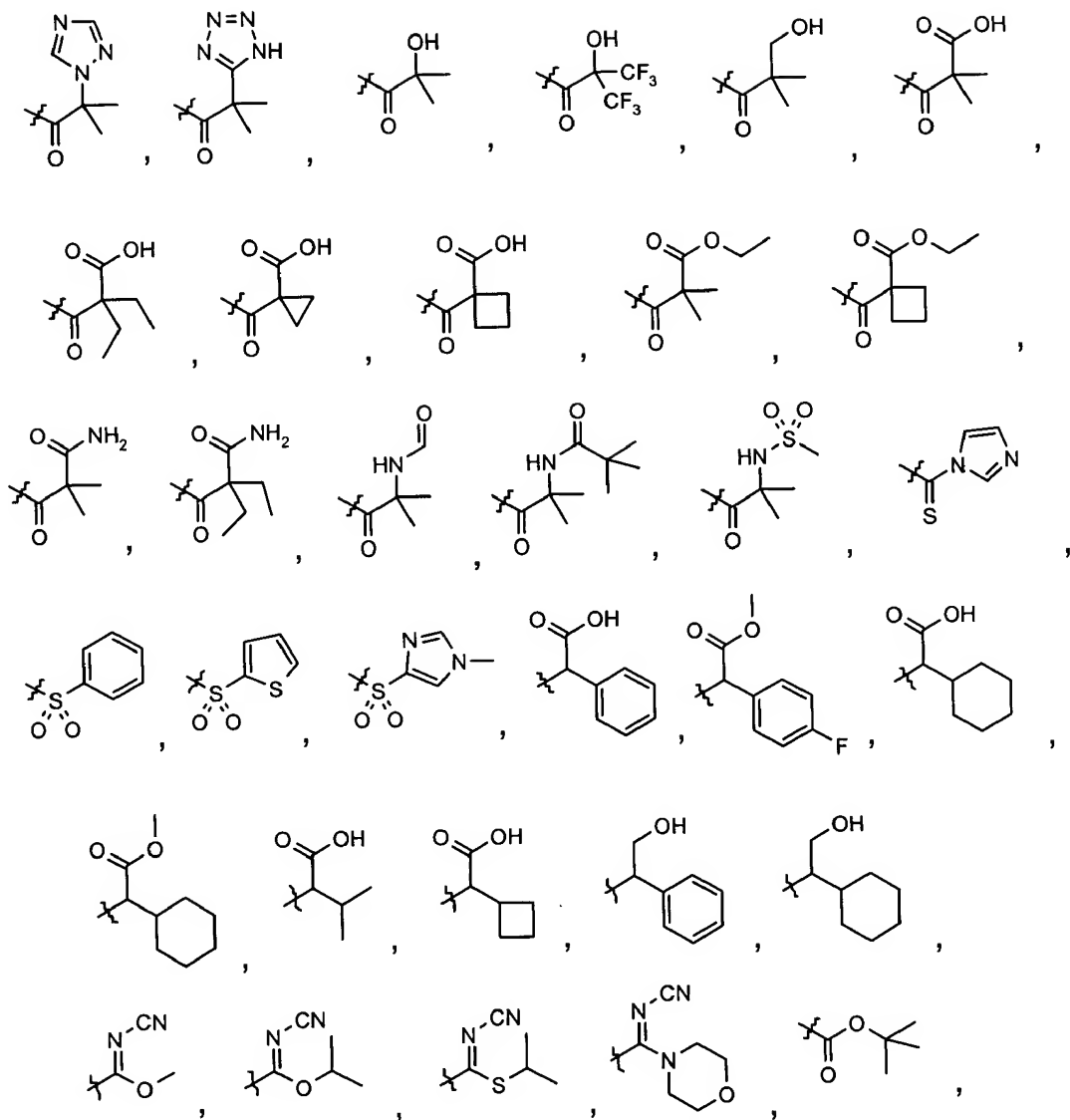


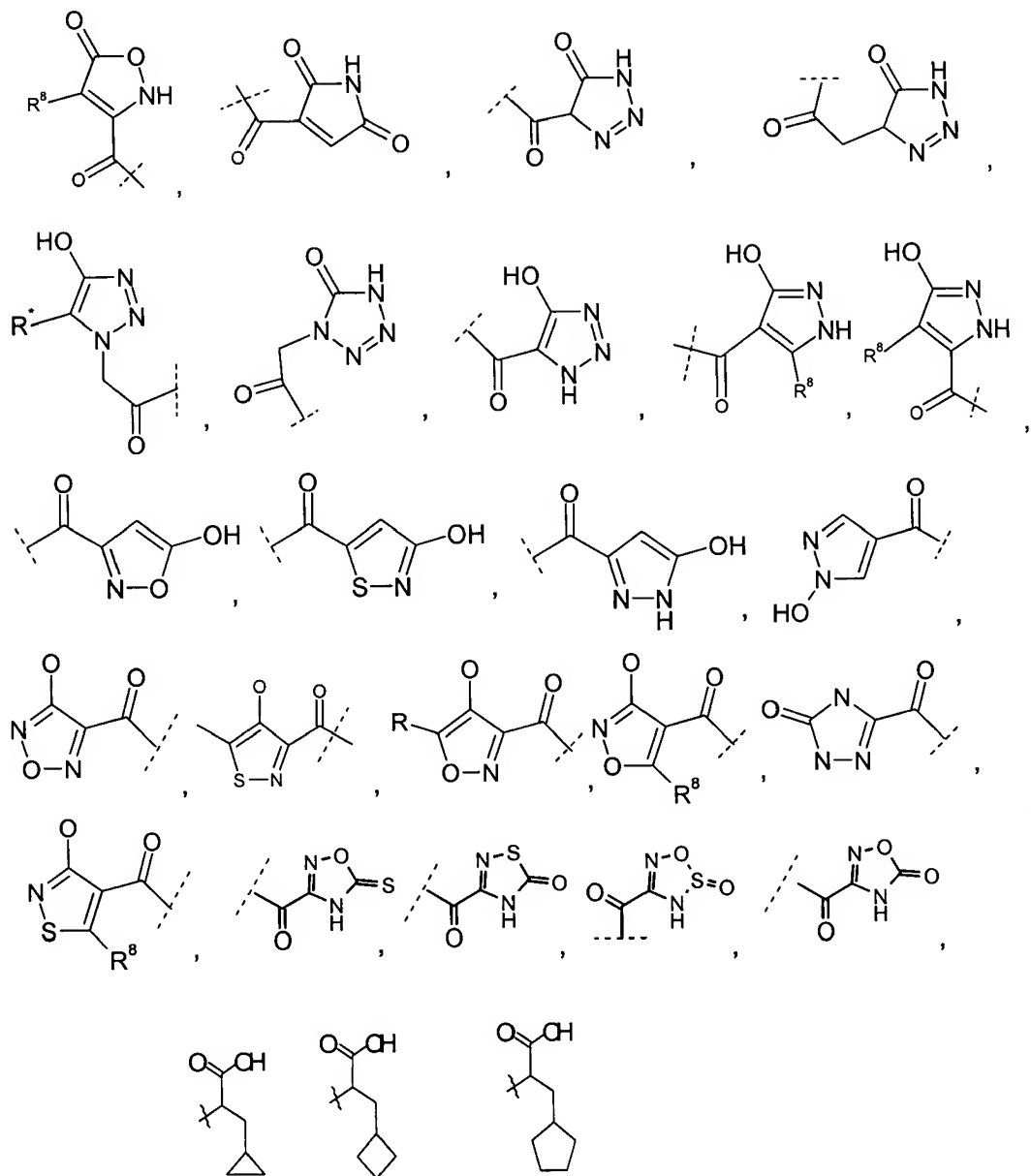
6. (Currently Amended) The compound of claim 2 1 wherein  $-(Y)_m-R^3$  is selected from the group consisting of

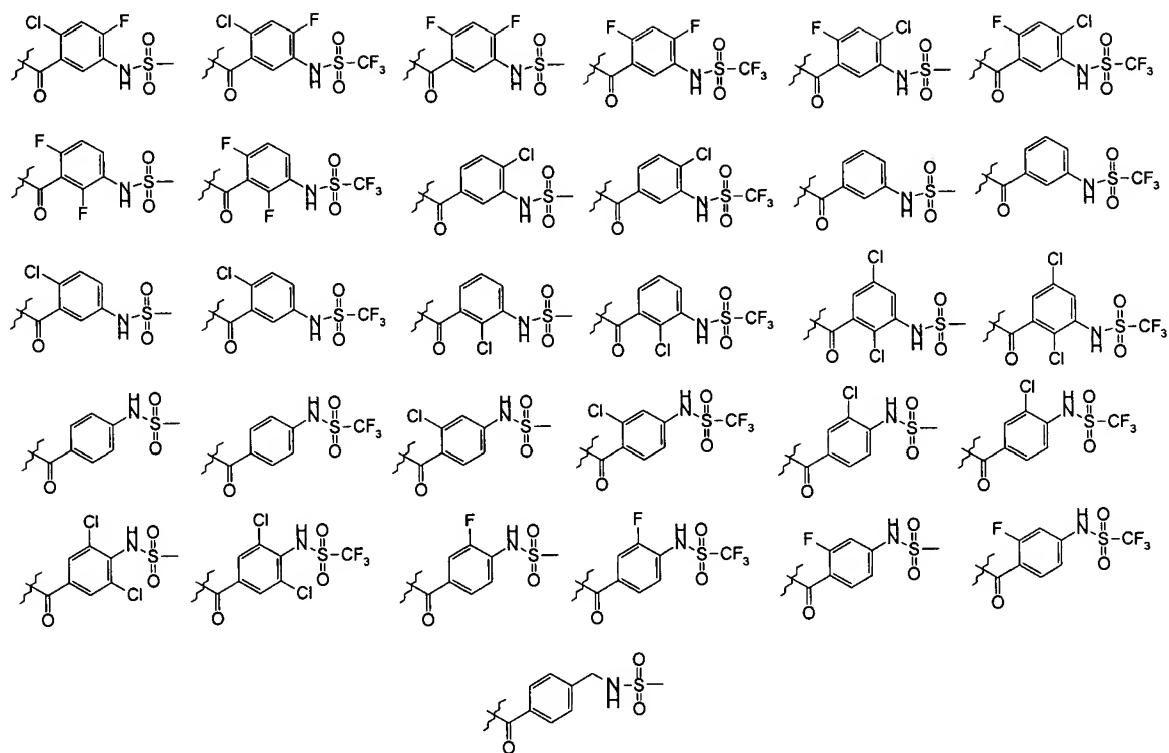






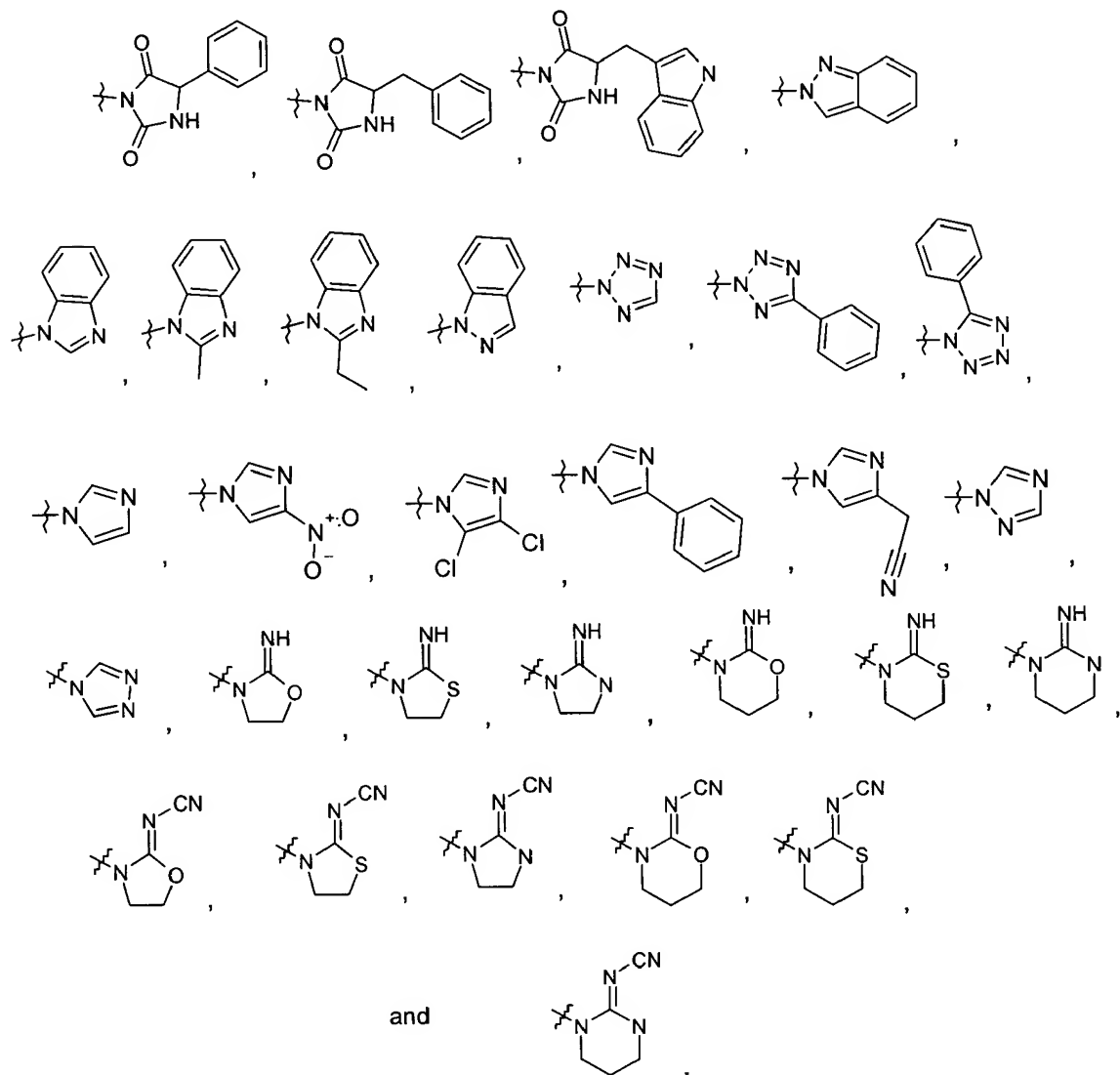






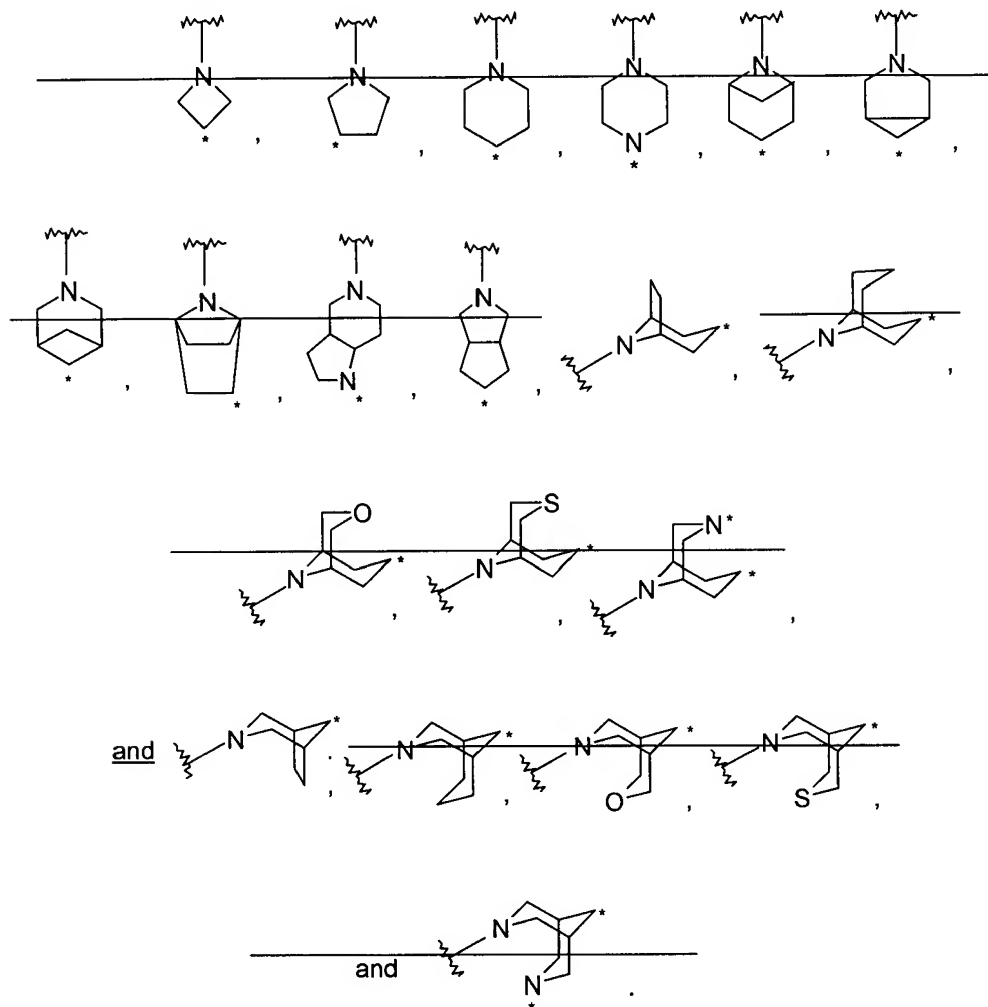
and

7. (Original) The compound of claim 1 wherein  $-(Y)_m-R^3$  and  $-R^9$  combine with the nitrogen atom to which they are attached to form a moiety selected from the group consisting of

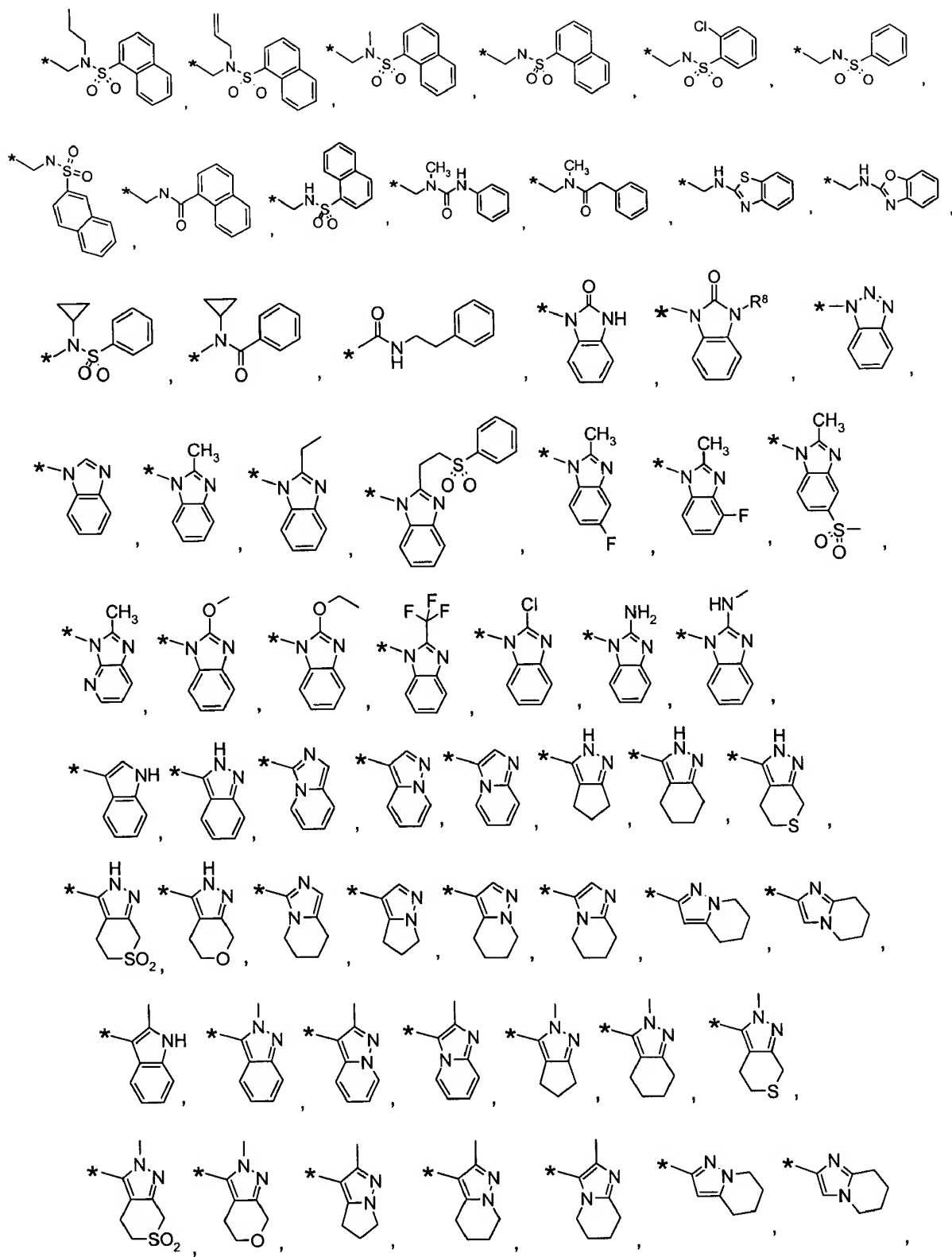


8. (Cancelled)
9. (Original) The compound of claim 1 wherein X is  $-(CH_2)-$ ,  $-(CH_2-CH_2)-$ , or  $-(CH_2-CH_2-CH_2)-$ .
10. (Original) The compound of claim 9 wherein X is optionally substituted by one or more halogen or oxo.
11. (Cancelled)

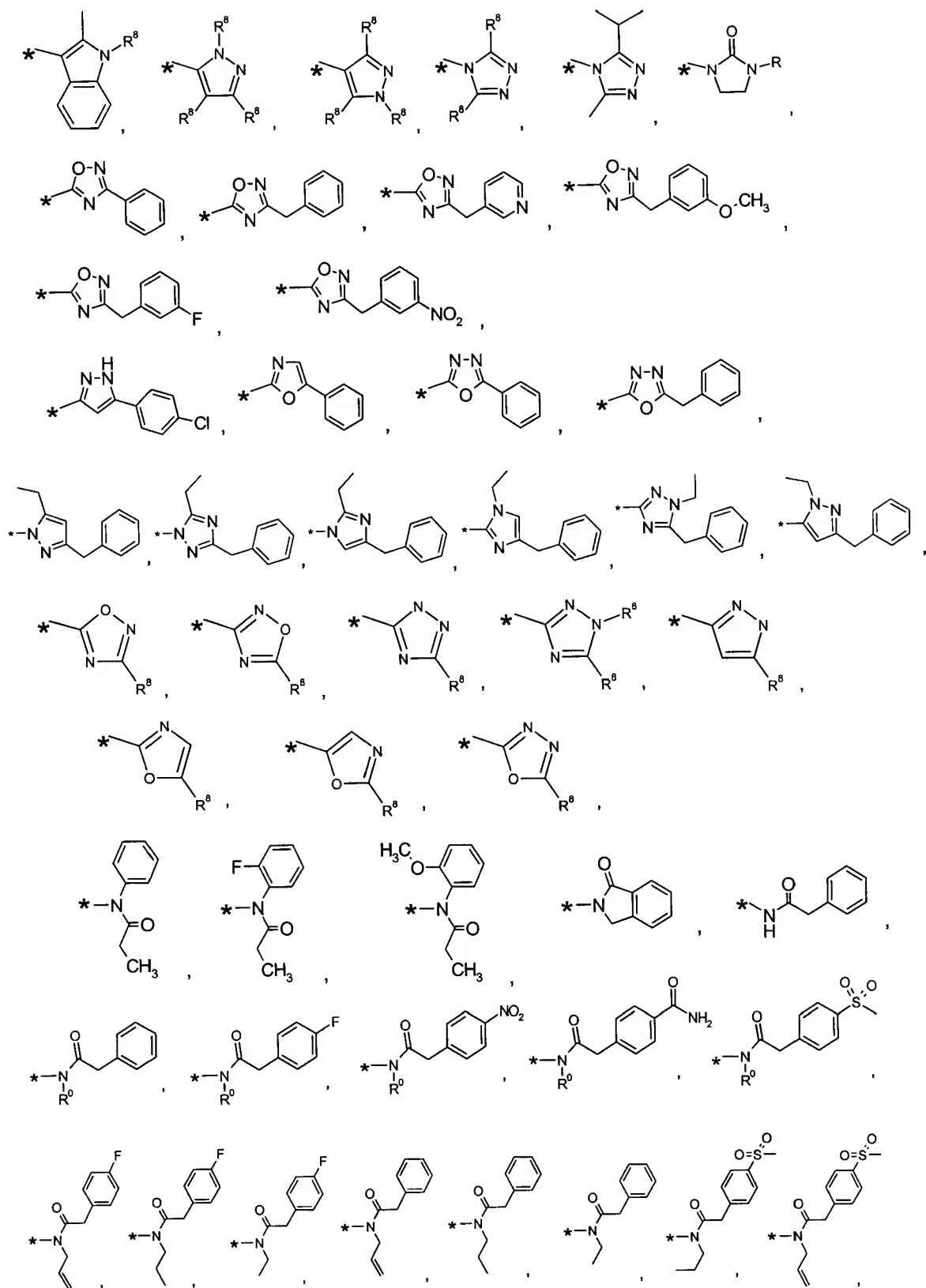
12. (Currently Amended) The compound of claim 1 wherein the A ring is selected, with the asterisk indicating a point of optional further substitution is selected from the group consisting of

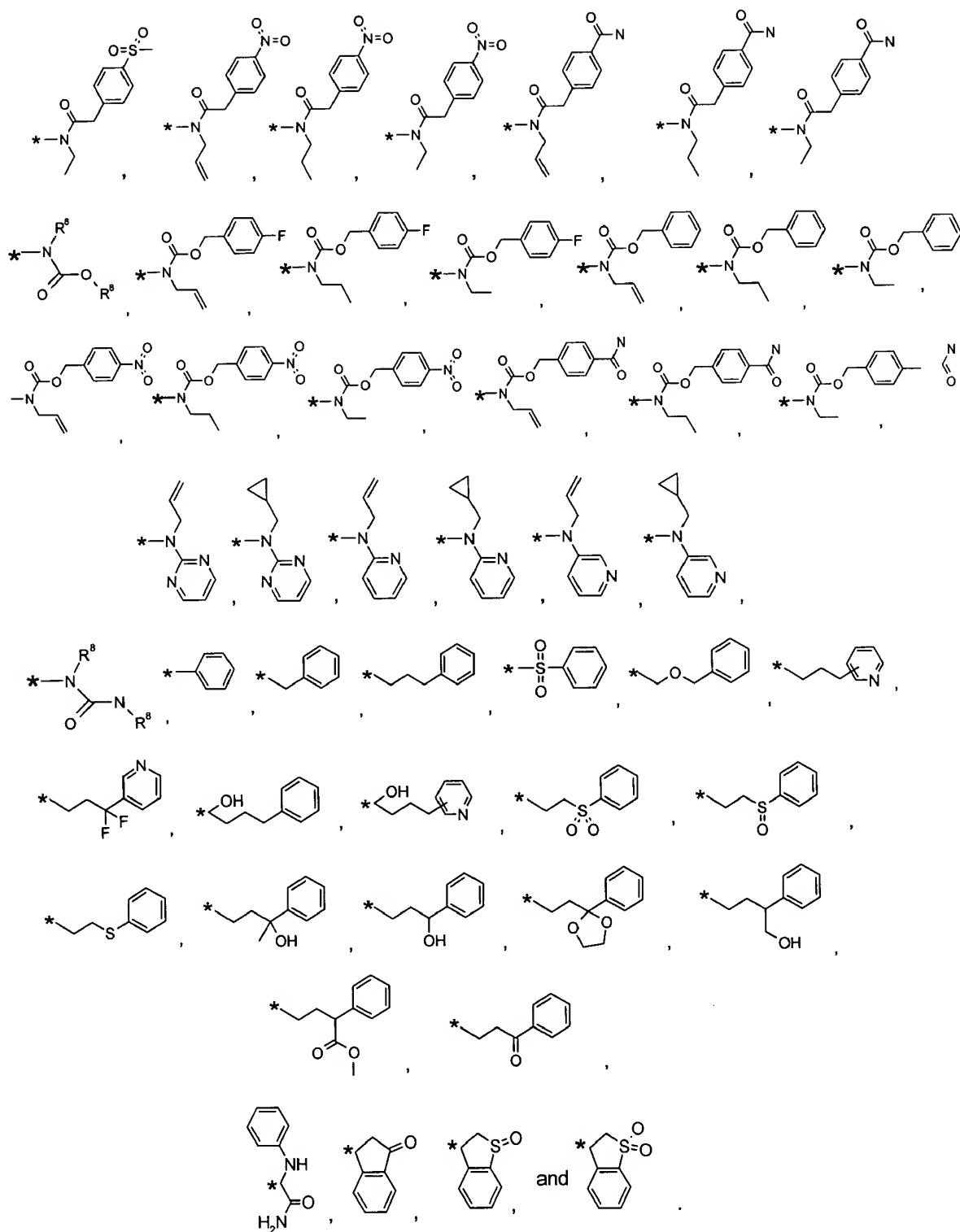


13. (Original) The compound of claim 12 wherein each  $R^2$ , with an asterisk indicating a point of substitution from Ring A, independently is selected from the group consisting of



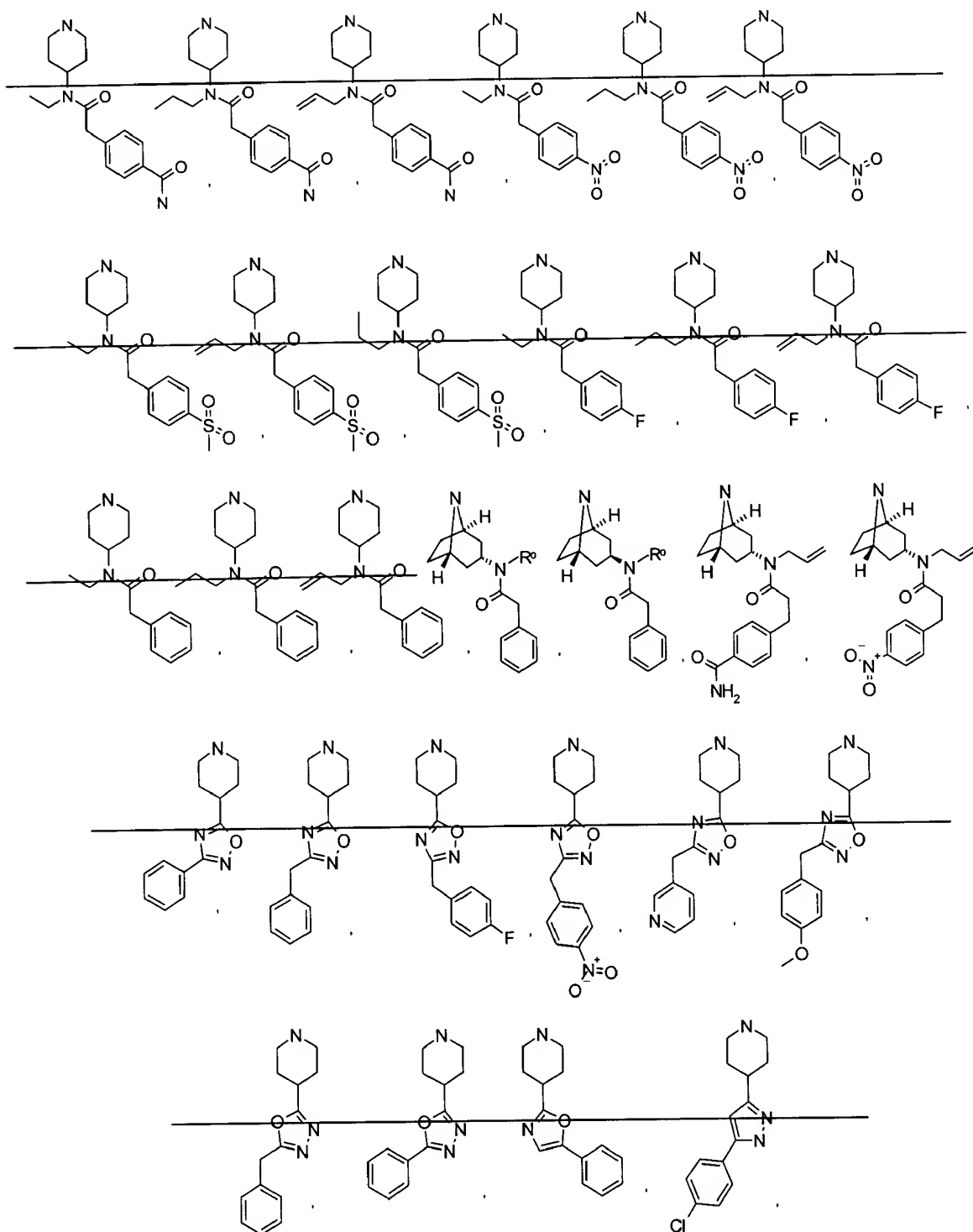


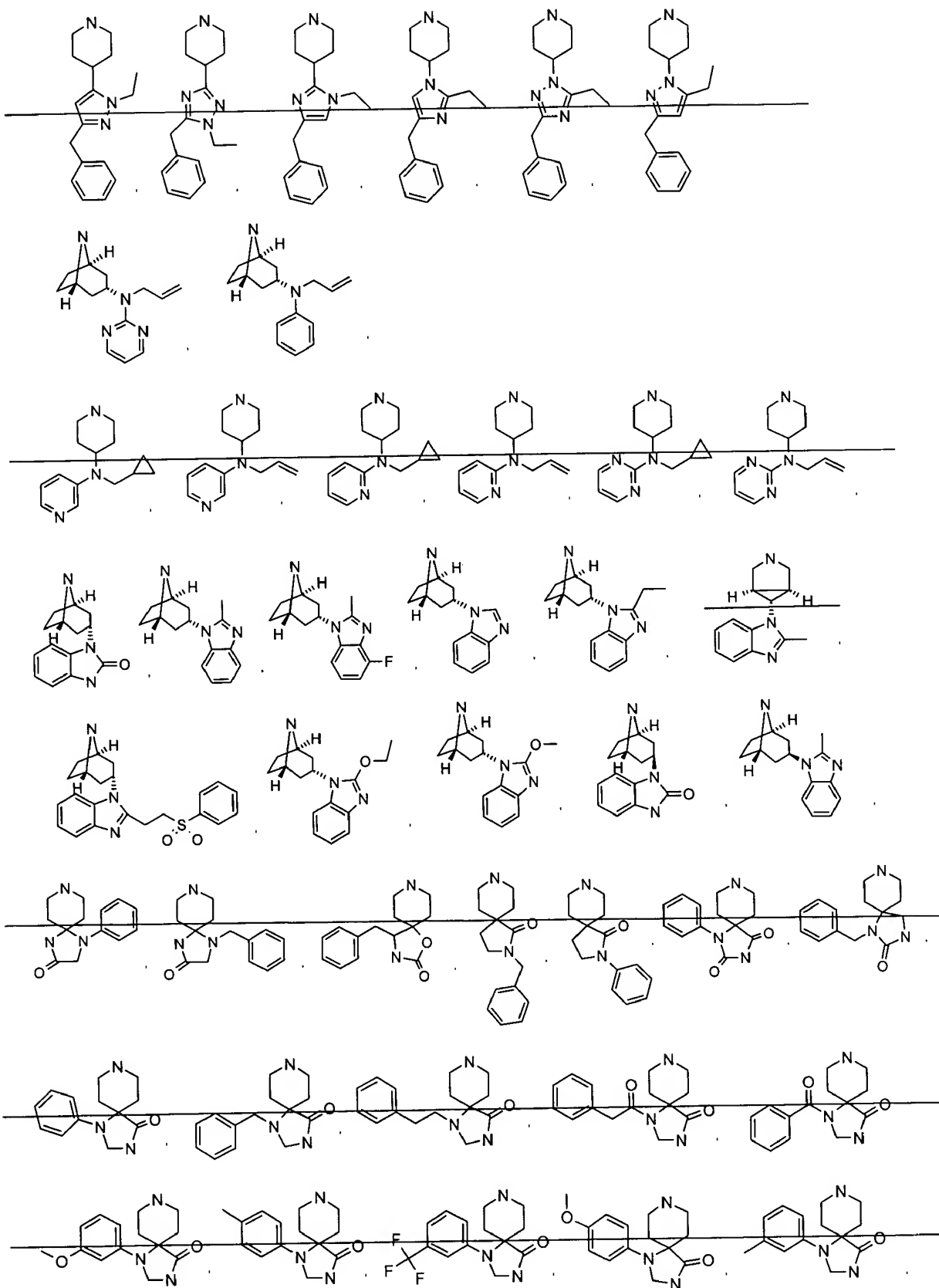


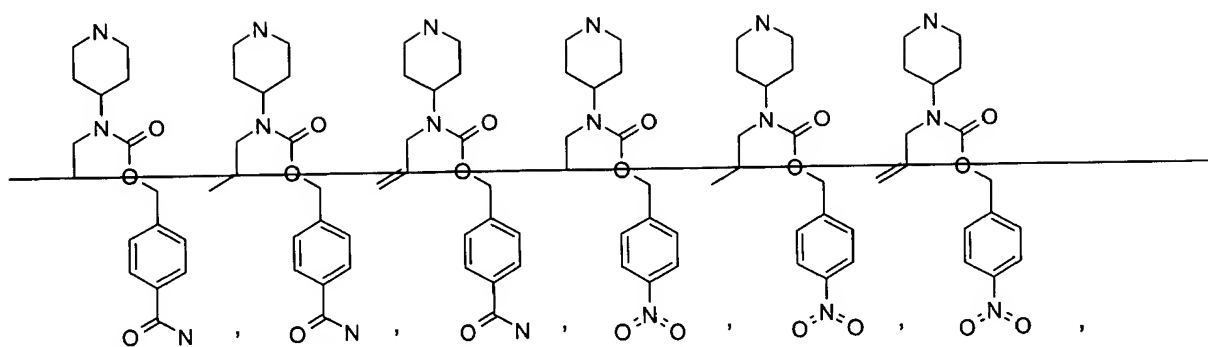


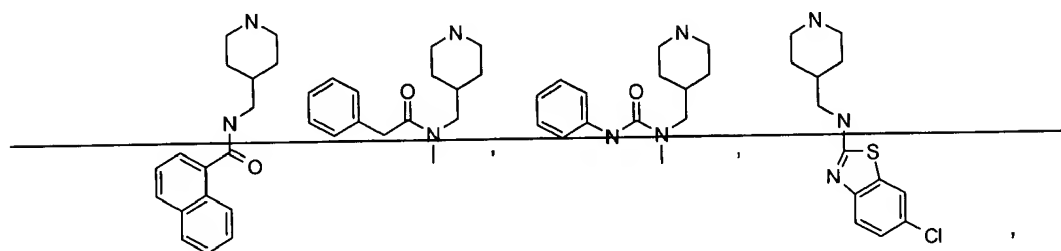
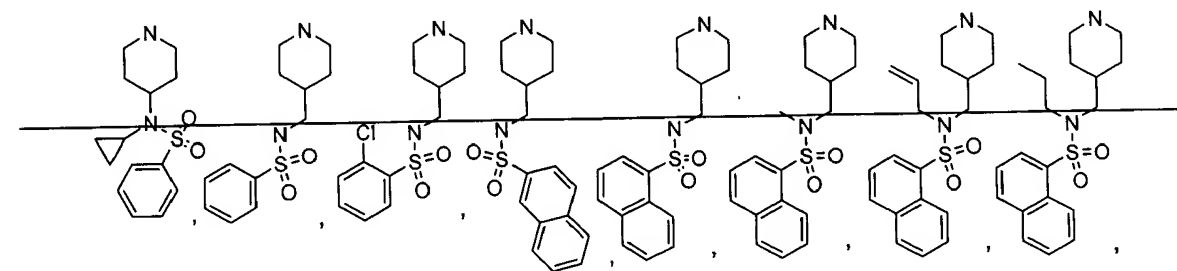
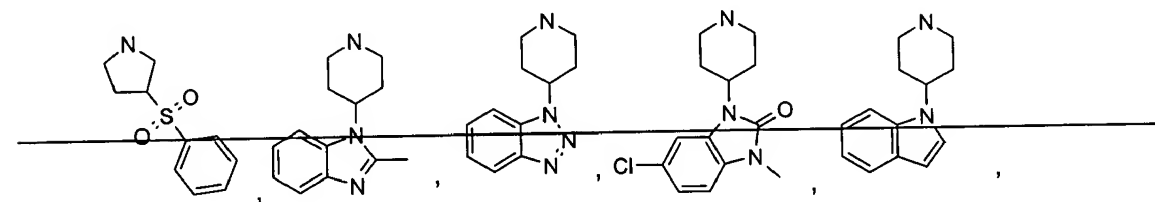
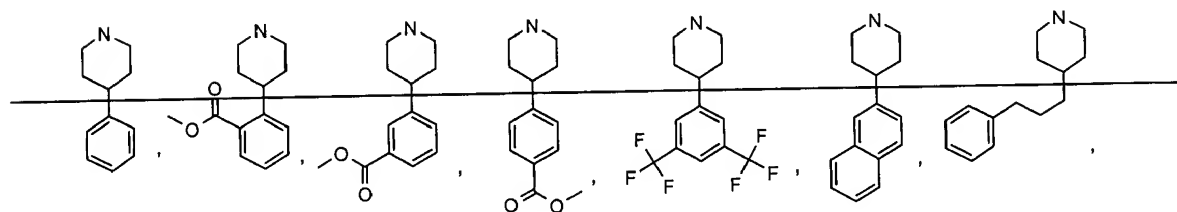
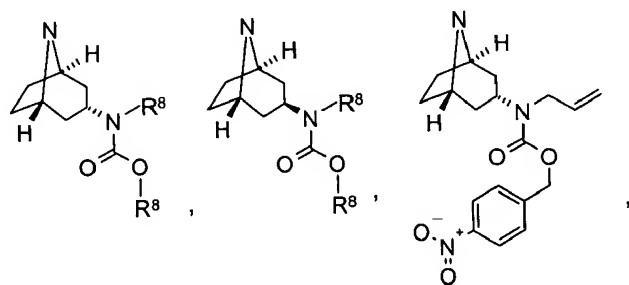
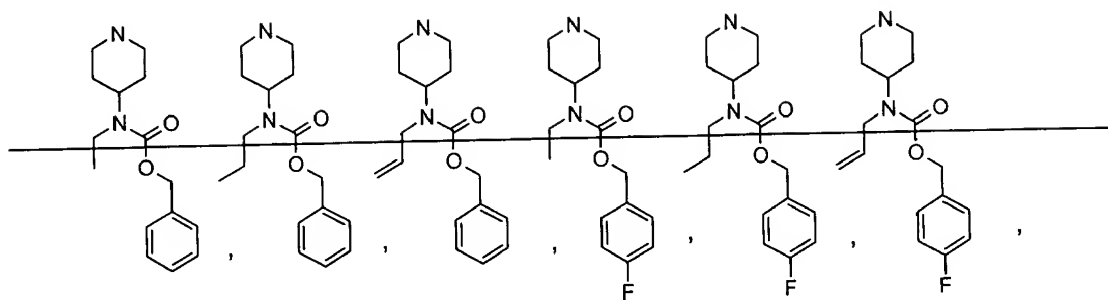
14. (Cancelled)
15. (Currently Amended) The compound of claim 1 wherein the A ring is tropane or piperidine, either optionally substituted with one or more R<sup>2</sup>.
16. (Currently Amended) The compound of claim 15 wherein the A ring is an unsubstituted tropane.

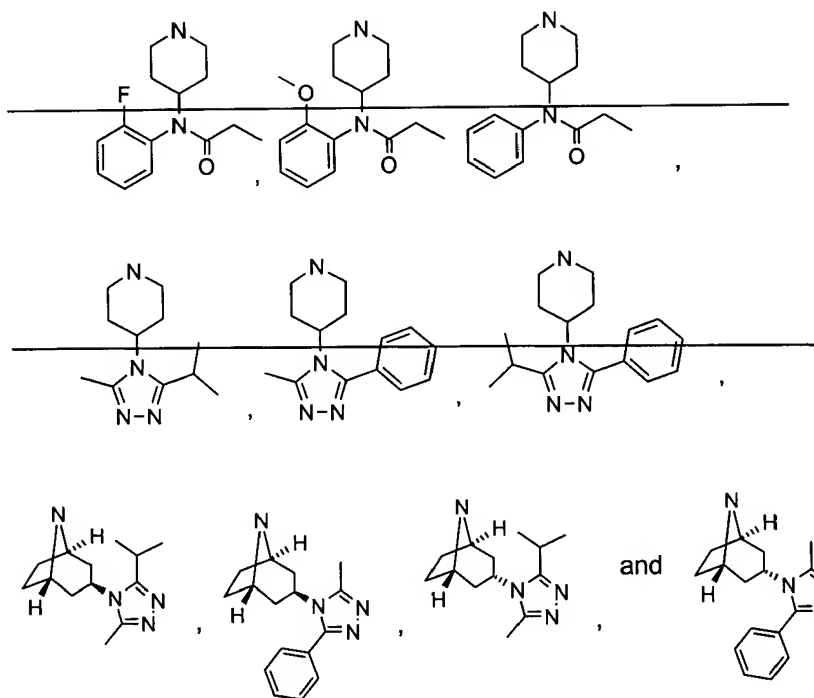
17. (Currently Amended) The compound of claim 15 wherein the A ring in combination with R<sup>2</sup> is











18. (Original) The compound of claim 15 wherein the tropane is endo.

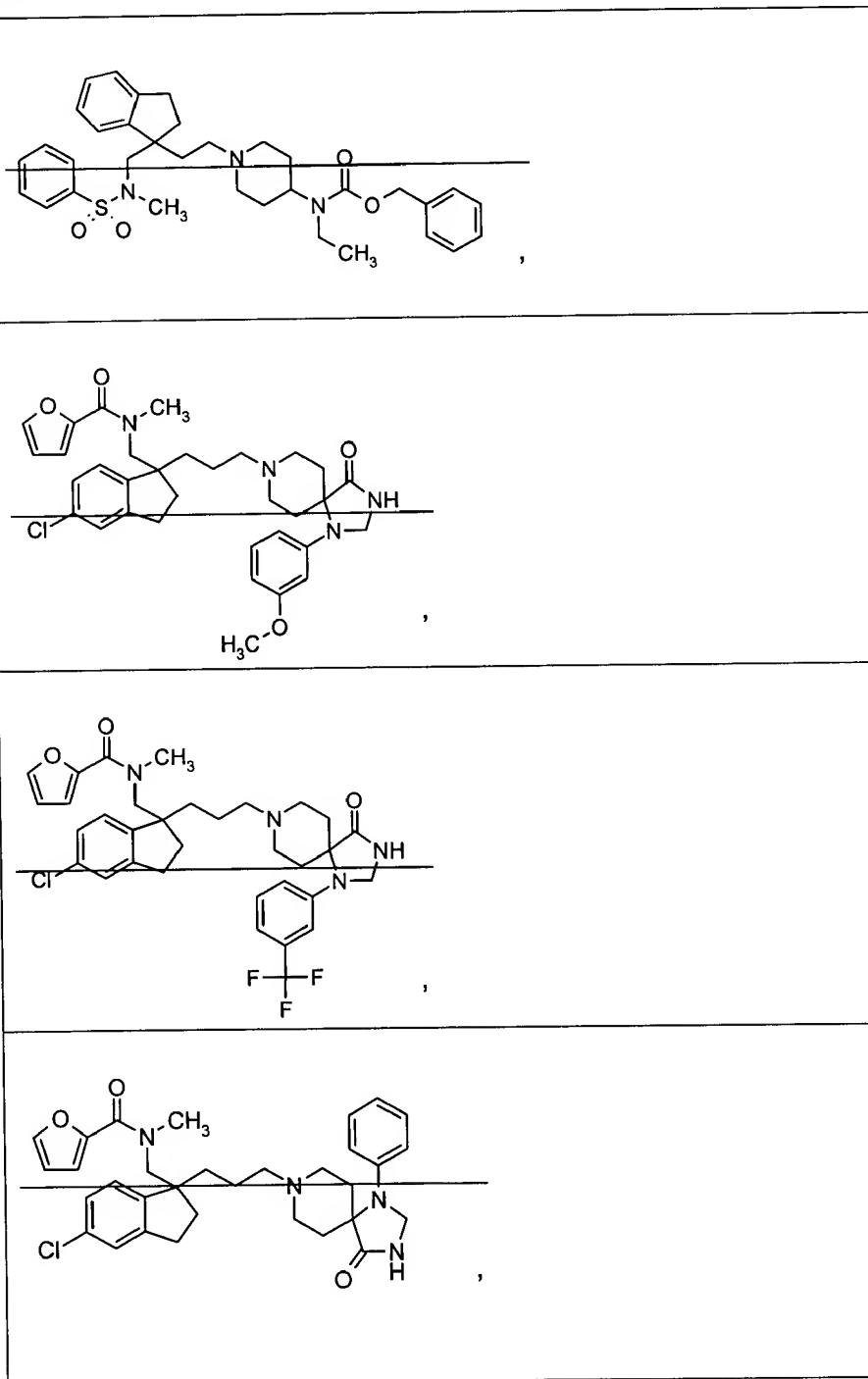
19. (Cancelled )

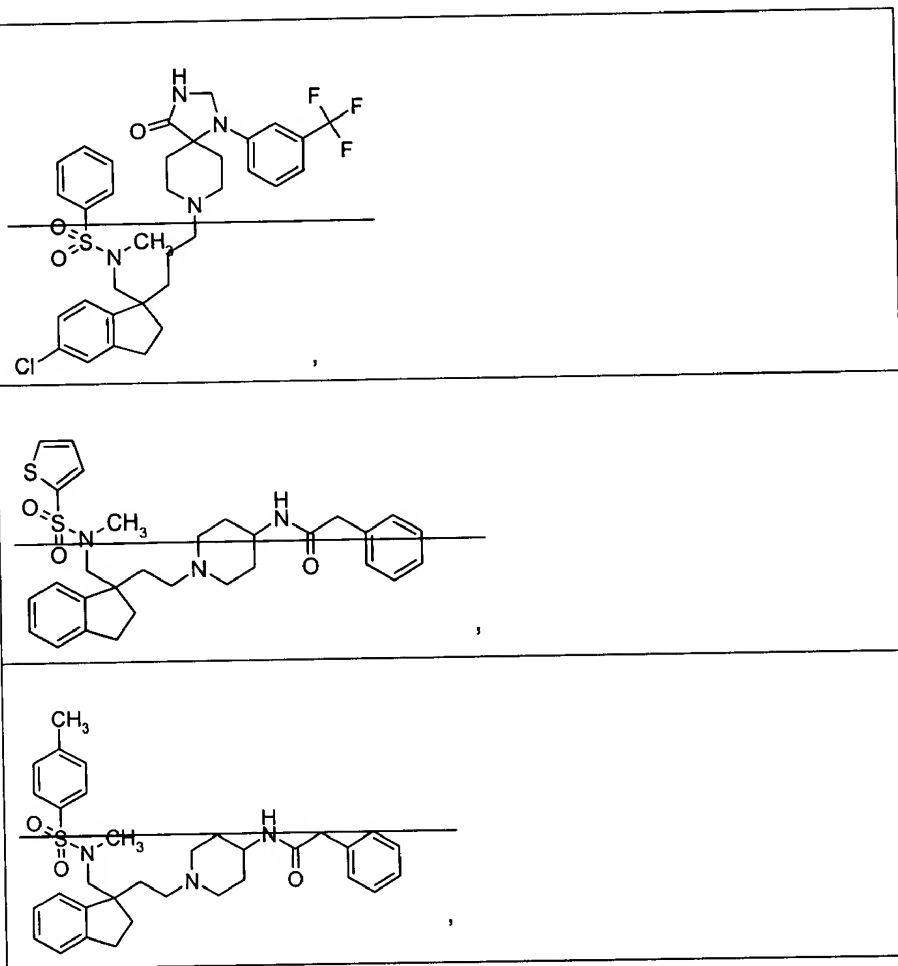
20. (Cancelled)

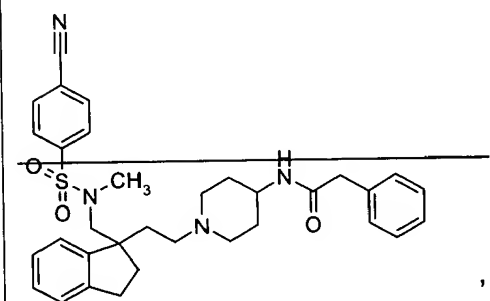
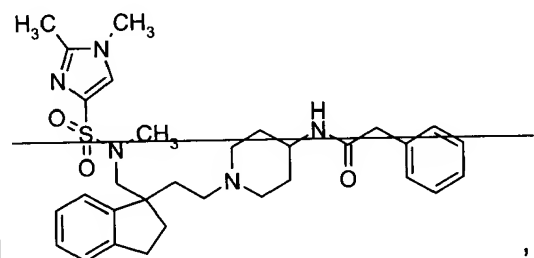
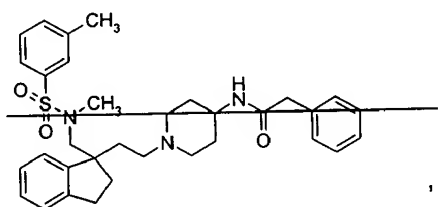
21. (Cancelled)

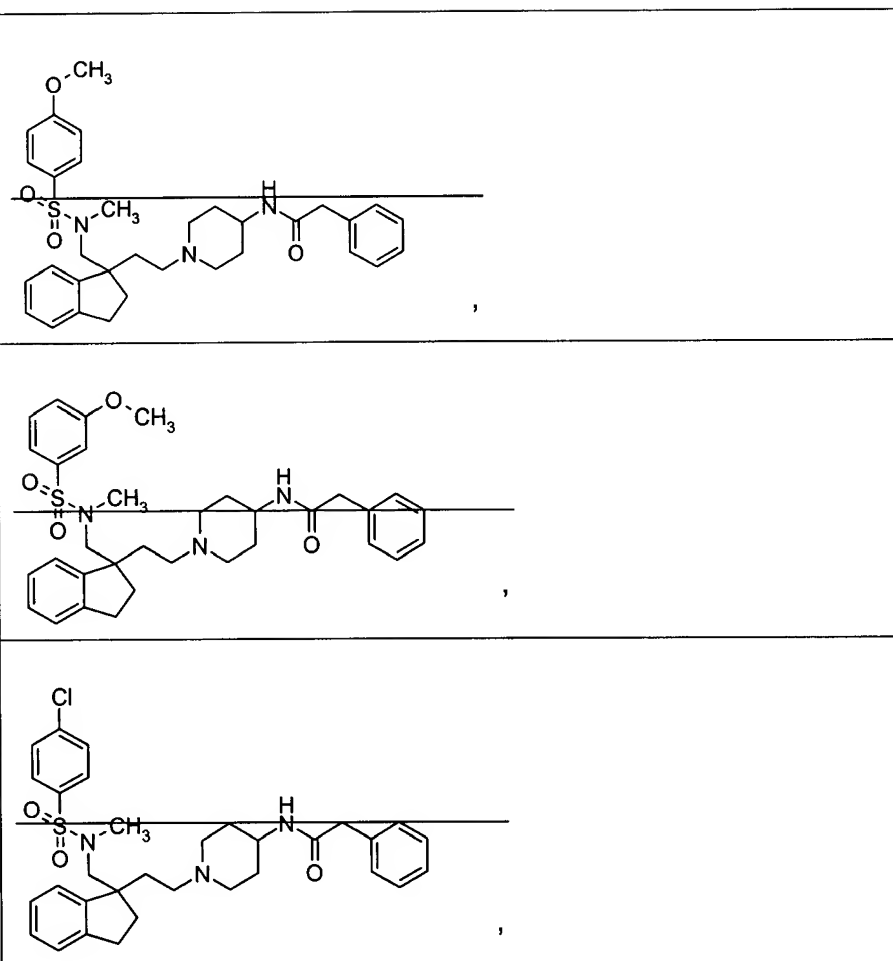


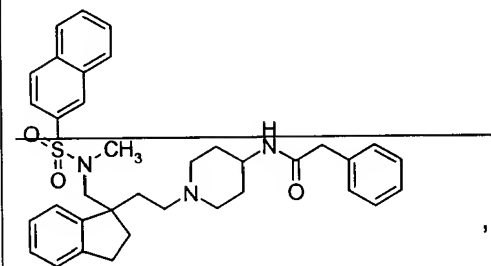
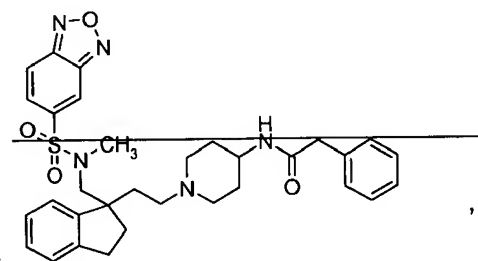
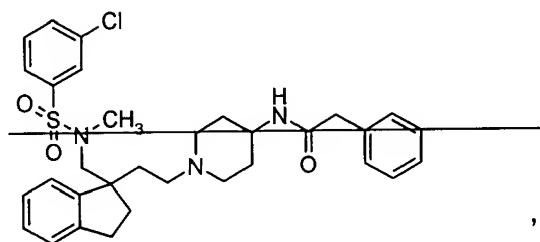
22. (Currently Amended) A compound or salt thereof selected from the group consisting of

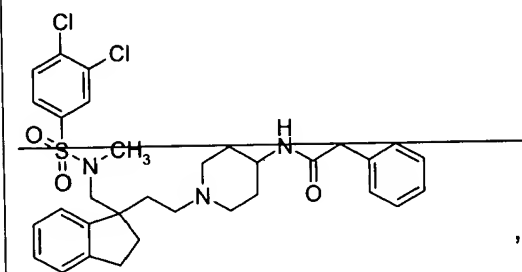
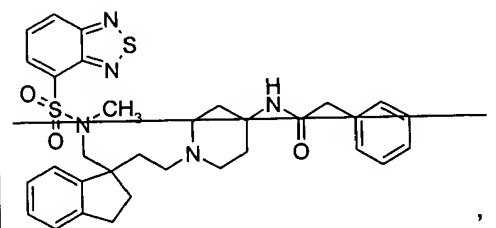
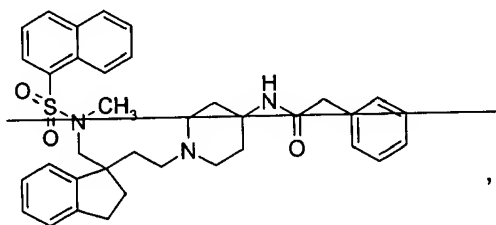


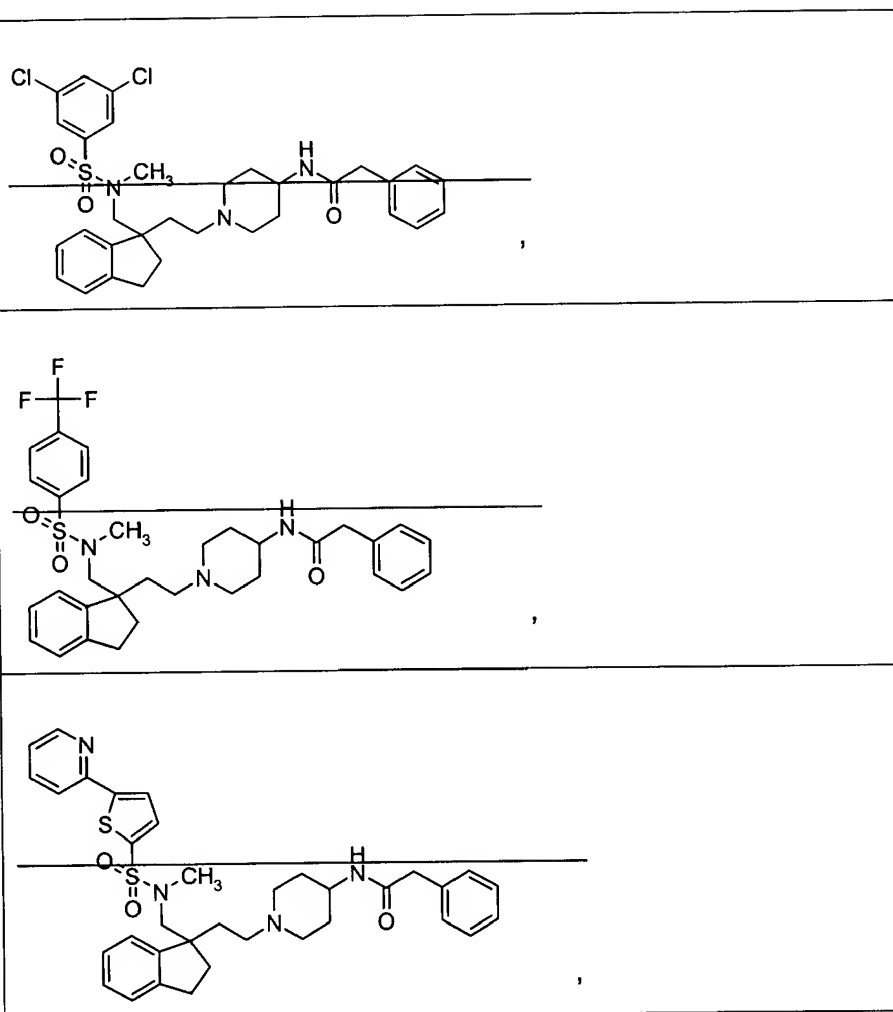


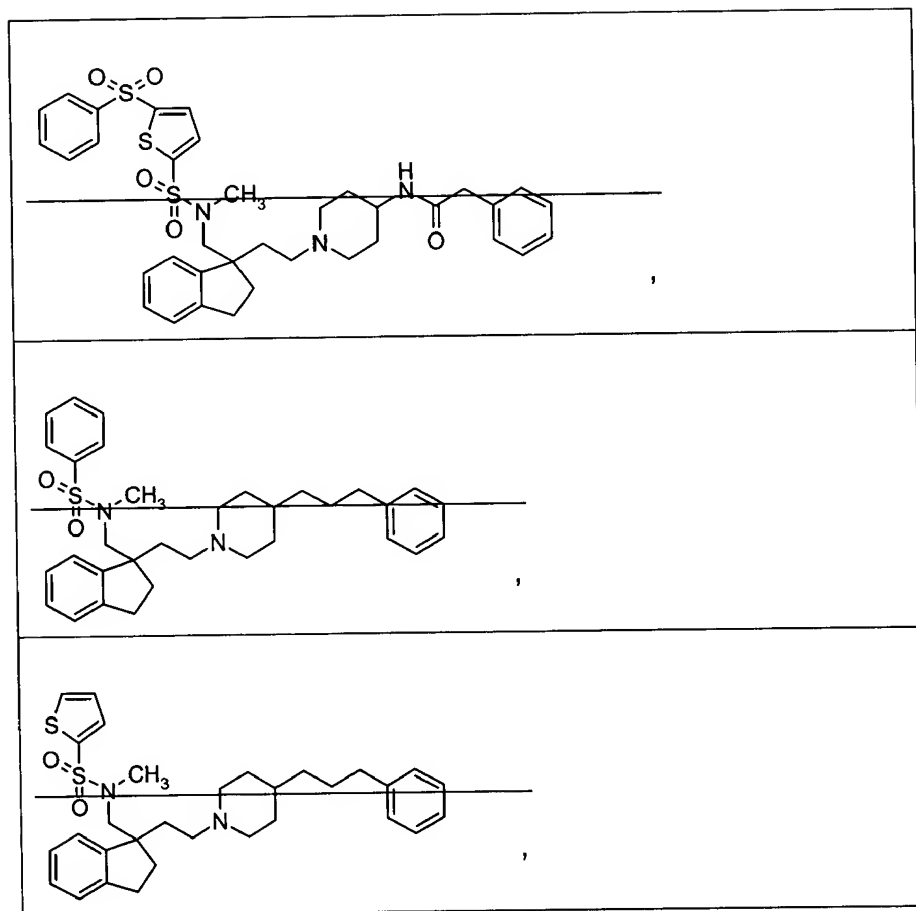




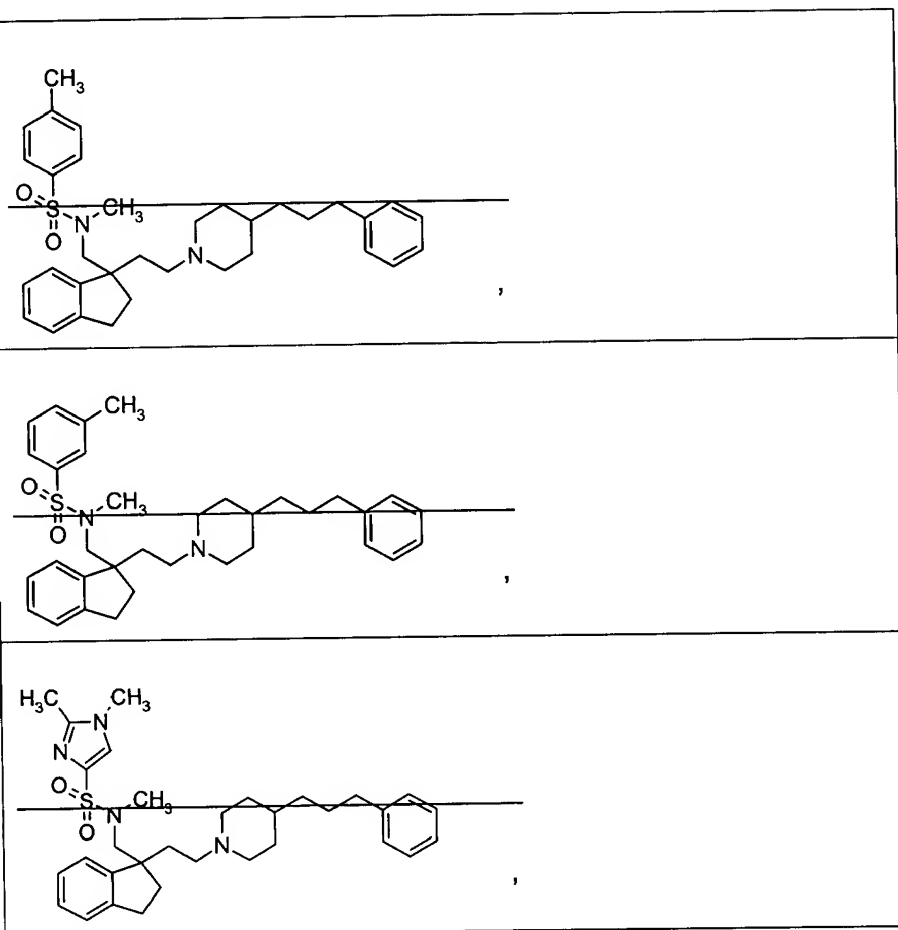


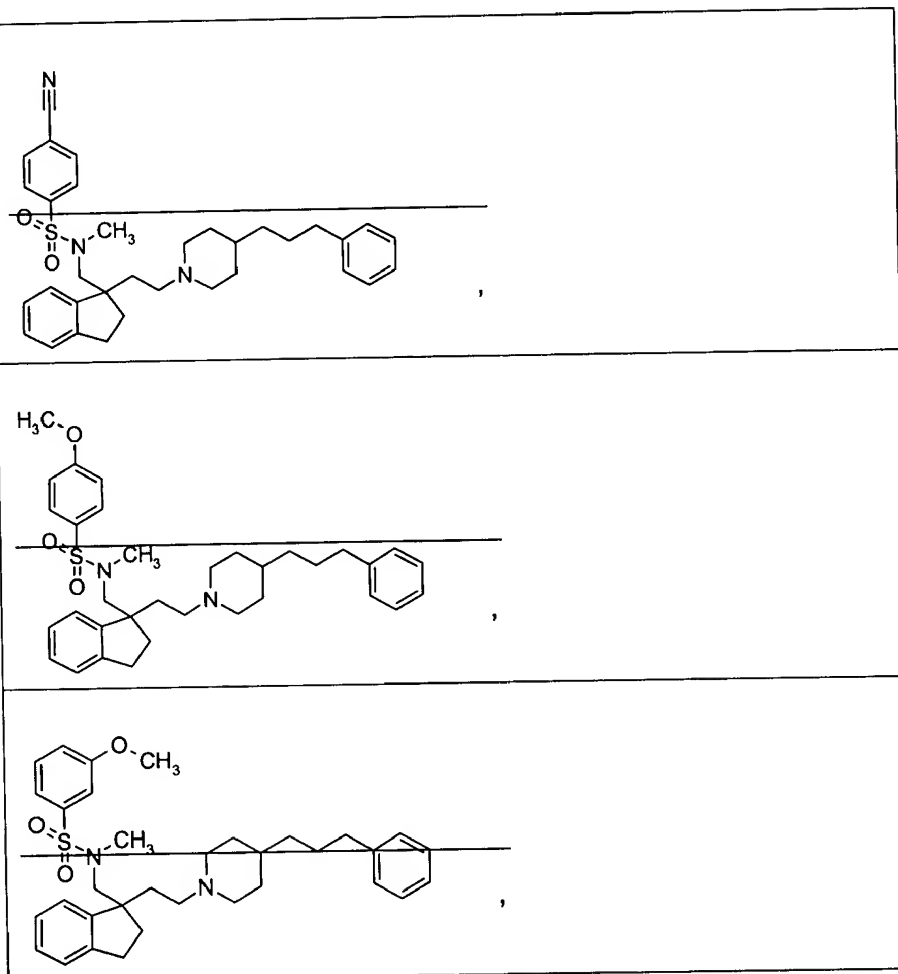


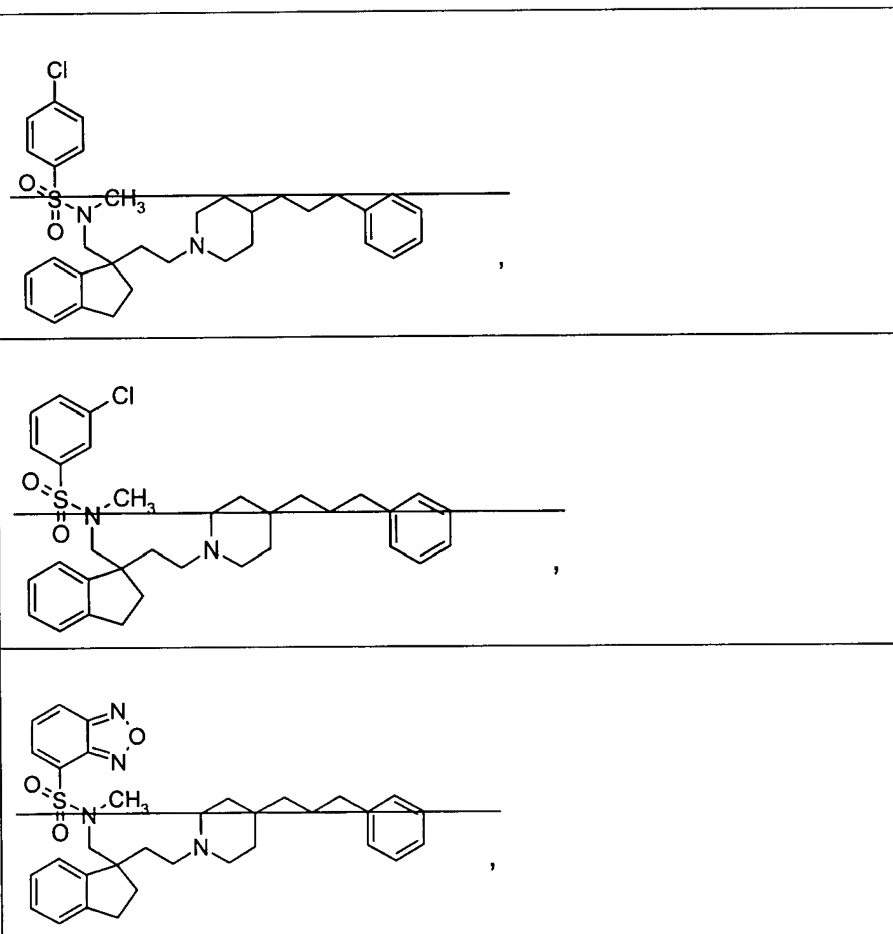


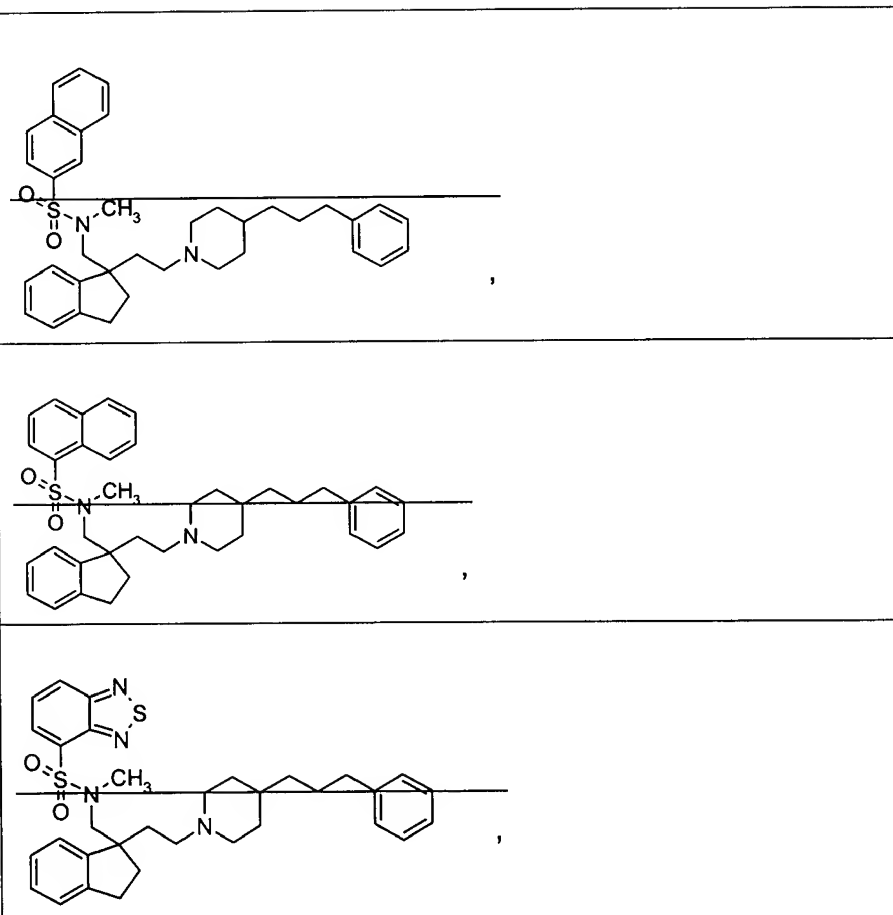


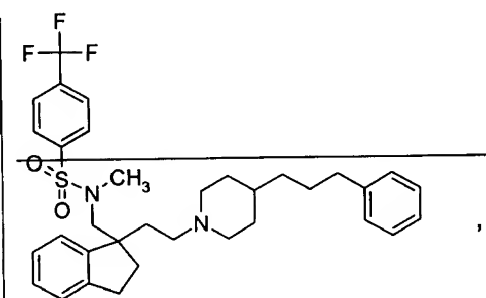
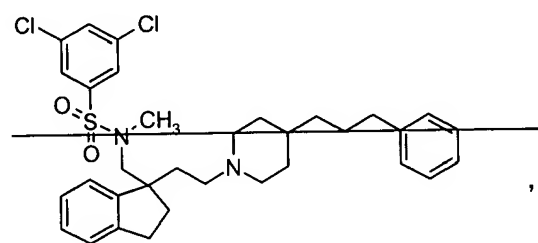
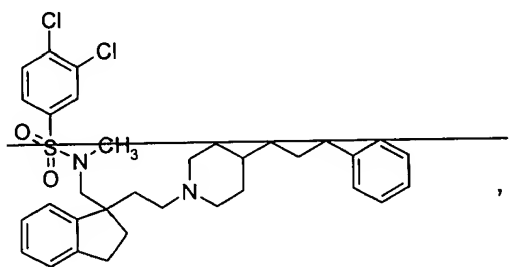


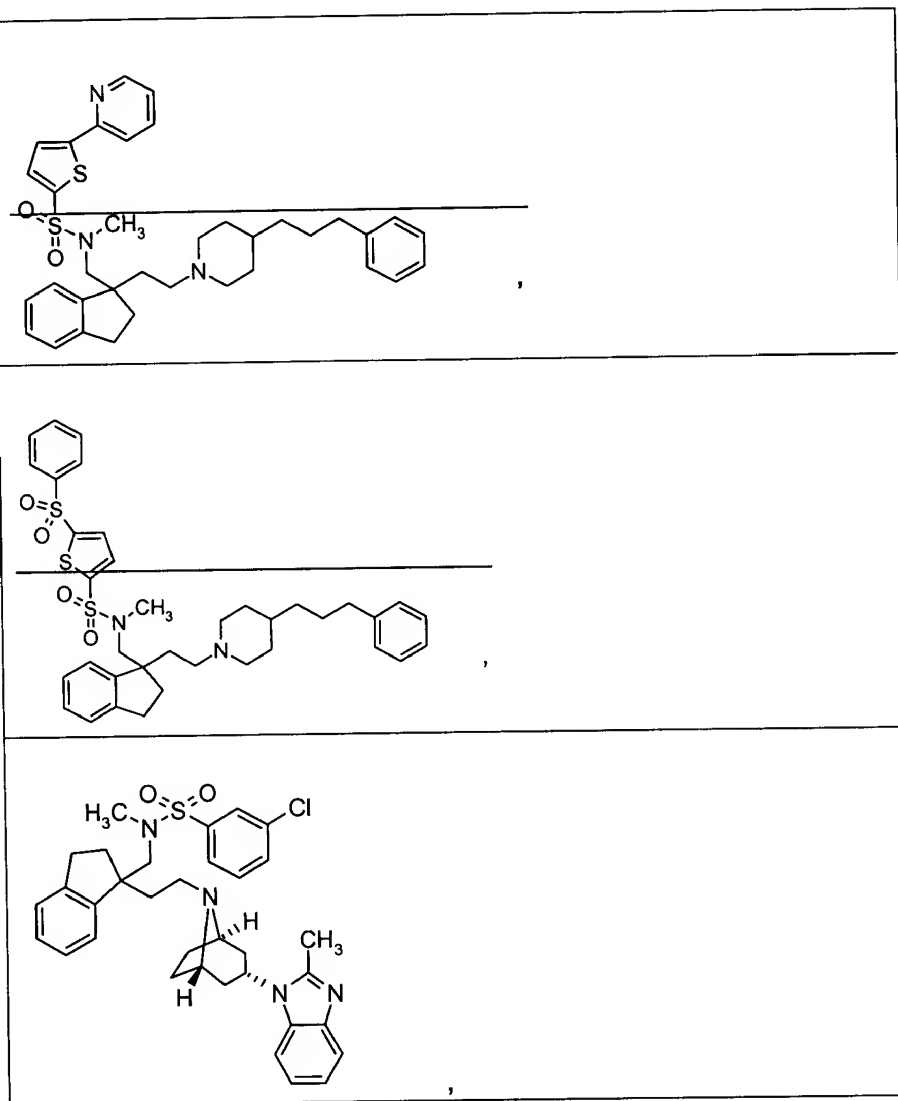


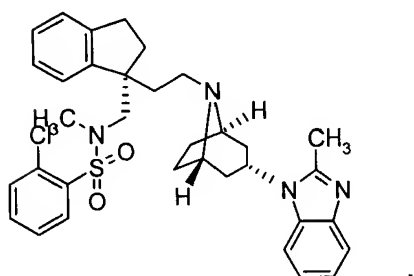
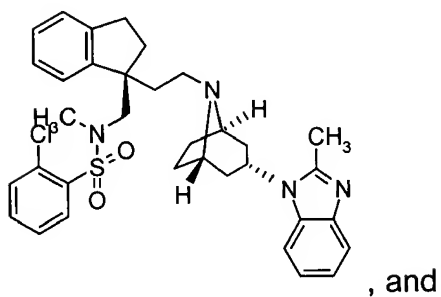
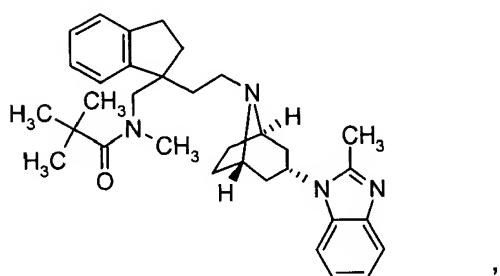
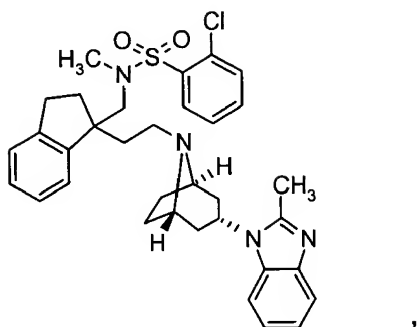












23. (Currently Amended) A method of treatment of a viral infection in a ~~mammal~~ human comprising administering to said ~~mammal~~ human an antiviral effective amount of a compound according to claim 1.

24. (Original) The method according to claim 23 wherein the viral infection is an HIV infection.

25. (Currently Amended) A method of treatment of a bacterial infection in a ~~mammal~~ human comprising administering to said ~~mammal~~ human an effective amount of a compound according to claim 1.

26. (Original) The method of claim 25 wherein the bacterium is *Yersinia pestis*.

27-33. (Cancelled)

34. (Previously Amended) A pharmaceutical composition comprising a pharmaceutically effective amount of a compound according to claim 1 together with a pharmaceutically acceptable carrier.

35. (Original) A pharmaceutical composition according to claim 34 in the form of a tablet or capsule.

36. (Original) A pharmaceutical composition according to claim 34 in the form of a liquid.

37. (Currently Amended) A method of treatment of a viral infection in a ~~mammal~~ human comprising administering to said ~~mammal~~ human a composition comprising a compound according to claim 1 and another therapeutic agent.

38. (Original) A method according to claim 37, wherein said composition comprises another therapeutic agent selected from the group consisting of (1- $\alpha$ , 2- $\beta$ , 3- $\alpha$ )-9-[2,3-bis(hydroxymethyl)cyclobutyl]guanine [(-)BHCG, SQ-34514, lobucavir], 9-[(2R,3R,4S)-3,4-bis(hydroxymethyl)-2-oxetanosyl]adenine (oxetanocin-G), acyclic nucleosides, acyclovir, valaciclovir, famciclovir, ganciclovir, penciclovir, acyclic nucleoside phosphonates, (S)-1-(3-hydroxy-2-phosphonyl-



methoxypropyl)cytosine (HPMPC), [[[2-(6-amino-9H-purin-9-yl)ethoxy]methyl]phosphinylidene] bis(oxyethylene)-2,2-dimethylpropanoic acid (bis-POM PMEA, adefovir dipivoxil), [(1R)-2-(6-amino-9H-purin-9-yl)-1-methylethoxy]methyl]phosphonic acid (tenofovir), (R)-[[2-(6-Amino-9H-purin-9-yl)-1-methylethoxy]methyl]phosphonic acid bis-(isopropoxycarbonyloxymethyl)ester (bis-POC-PMMA), ribonucleotide reductase inhibitors, 2-acetylpyridine 5-[(2-chloroanilino)thiocarbonyl] thiocarbonohydrazone and hydroxyurea, nucleoside reverse transcriptase inhibitors, 3'-azido-3'-deoxythymidine (AZT, zidovudine), 2',3'-dideoxycytidine (ddC, zalcitabine), 2',3'-dideoxyadenosine, 2',3'-dideoxyinosine (ddI, didanosine), 2',3'-didehydrothymidine (d4T, stavudine), (-)-beta-D-2,6-diaminopurine dioxolane (DAPD), 3'-azido-2',3'-dideoxythymidine-5'-H-phosphonate (phosphonovir), 2'-deoxy-5-iodo-uridine (idoxuridine), (-)-cis-1-(2-hydroxymethyl)-1,3-oxathiolane 5-yl)-cytosine (lamivudine), cis-1-(2-(hydroxymethyl)-1,3-oxathiolan-5-yl)-5-fluorocytosine (FTC), 3'-deoxy-3'-fluorothymidine, 5-chloro-2',3'-dideoxy-3'-fluorouridine, (-)-cis-4-[2-amino-6-(cyclopropylamino)-9H-purin-9-yl]-2-cyclopentene-1-methanol (abacavir), 9-[4-hydroxy-2-(hydroxymethyl)but-1-yl]-guanine (H2G), ABT-606 (2HM-H2G) ribavirin, protease inhibitors, indinavir, ritonavir, nelfinavir, amprenavir, saquinavir, fosamprenavir, (R)-N-tert-butyl-3-[(2S,3S)-2-hydroxy-3-N-[(R)-2-N-(isoquinolin-5-yloxyacetyl)amino-3-methylthiopropionyl]amino-4-phenylbutanoyl]-5,5-dimethyl-1,3-thiazolidine-4-carboxamide (KNI-272), 4R-(4alpha,5alpha,6beta)-1,3-bis[(3-aminophenyl)methyl]hexahydro-5,6-dihydroxy-4,7-bis(phenylmethyl)-2H-1,3-diazepin-2-one dimethanesulfonate (mozenavir), 3-[1-[3-[2-(5-trifluoromethylpyridinyl)-sulfonylamino]phenyl]propyl]-4-hydroxy-6alpha-phenethyl-6beta-propyl-5,6-dihydro-2-pyranone (tipranavir), N'-[2(S)-Hydroxy-3(S)-[N-(methoxycarbonyl)-l-tert-leucylamino]-4-phenylbutyl-N-alpha-(methoxycarbonyl)-N'-[4-(2-pyridyl)benzyl]-L-tert-leucylhydrazide (BMS-232632), 3-(2(S)-Hydroxy-3(S)-(3-hydroxy-2-methylbenzamido)-4-phenylbutanoyl)-5,5-dimethyl-N-(2-methylbenzyl)thiazolidine-4(R)-carboxamide (AG-1776), N-(2(R)-hydroxy-1(S)-indanyl)-2(R)-phenyl-methyl-4(S)-hydroxy-5-(1-(1-(4-benzo[b]furanylmethyl)-2(S)-N'-(tert-butylcarboxamido)piperazinyl)pentanamide (MK-944A), interferons,  $\alpha$ -

interferon, renal excretion inhibitors, probenecid, nucleoside transport inhibitors, dipyridamole, pentoxifylline, N-acetylcysteine (NAC), Procysteine,  $\alpha$ -trichosanthin, phosphonoformic acid, immunomodulators, interleukin II, thymosin, granulocyte macrophage colony stimulating factors, erythropoietin, soluble CD<sub>4</sub> and genetically engineered derivatives thereof, non-nucleoside reverse transcriptase inhibitors (NNRTIs), nevirapine (BI-RG-587), alpha-((2-acetyl-5-methylphenyl)amino)-2,6-dichloro-benzeneacetamide (loviride), 1-[3-(isopropylamino)-2-pyridyl]-4-[5-(methanesulfonamido)-1H-indol-2-ylcarbonyl]piperazine monomethanesulfonate (delavirdine), (10R, 11S, 12S)-12-hydroxy-6, 6, 10, 11-tetramethyl-4-propyl-11,12-dihydro-2H, 6H, 10H-benzo(1, 2-b:3, 4-b':5, 6-b'')tripyrans-2-one ((+) calanolide A), (4S)-6-Chloro-4-[1E]-cyclopropylethenyl)-3,4-dihydro-4-(trifluoromethyl)-2(1H)-quinazolinone (DPC-083), (S)-6-chloro-4-(cyclopropylethynyl)-1,4-dihydro-4-(trifluoromethyl)-2H-3,1-benzoxazin-2-one (efavirenz, DMP 266), 1-(ethoxymethyl)-5-(1-methylethyl)-6-(phenylmethyl)-2,4(1H,3H)-pyrimidinedione (MKC-442), and 5-(3,5-dichlorophenyl)thio-4-isopropyl-1-(4-pyridyl)methyl-1H-imidazol-2-ylmethyl carbamate (capravirine), glycoprotein 120 antagonists, PRO-2000, PRO-542, 1,4-bis[3-[(2, 4-dichlorophenyl)carbonylamino]-2-oxo-5,8-disodiumsulfanyl]naphthalyl-2, 5-dimethoxyphenyl-1, 4-dihydrazone (FP-21399), cytokine antagonists, reticulose (Product-R), 1,1'-azobis-formamide (ADA), 1,11-(1,4-phenylenebis(methylene))bis-1,4,8,11-tetraazacyclotetradecane octahydrochloride (AMD-3100), integrase inhibitors, and fusion inhibitors.

39. (Currently Amended) A method of treatment of a viral infection in a ~~mammal~~ human comprising administering to said ~~mammal~~ human a composition comprising a compound according to claim 1 and ritonavir.